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ABSTRACT

This four-part study introduces the reader to the methods and procedures used in descriptive linguistics and their application to the sound systems of English and Russian. A condensed phonology of English includes discussion of consonants, vowels, stress, phrasing, and pitch. The section on Russian phonemes examines: (1) consonant and vowel phonemes; (2) palatalization, voicing, and classification of consonants; (3) vowels; and (4) other phonemes. A comparison of Pussian and English sounds in nine areas concludes the paper. Numerous examples of words transcribed in phonetic symbols illustrate linguistic principles. For a comparison document see FL 001797. [Hard copy not available due to marginal legibility of original document.] (9L)



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The System of Sounds of English and Russian

1. Introduction

The attempt made here is to consider language in terms of <u>descriptive</u> linguistics. This is a method of studying a language which grew up primarily within the discipline of anthropology. It consists, in essence, of examining a language the way a naturalist examines the world around him. Descriptive linguistics is concerned, as its name implies, with describing languages as they are. It is concerned with finding out how languages work and identifying the relevant units in terms of which the utterances of the language may be analyzed. The descriptive linguist is interested in the structure of a language, i.e., the way the units at various levels, (e.g. sands, words) are employed and the complex relations among them.

In proceeding to discover the structural system underlying the use of a given language, linguistics makes a key use of the principle of contrast. When two utterances constitute different messages they are said to be in contrast. If the two contrasting utterances are slike except for one part in each, then these two parts are in contrast. By repeated substitution of different parts and comparison of the resulting utterances the linguist determines the relevant units. All utterances can then be described in terms of these units and the kinds of arrangements in which they occur. The interchangeability of units at various points in an utterance in which the linguist discovers by the procedures of substitition in.



is called commutation.

- Descriptive linguists apply this principle of contrast separately to the sounds and to the grammar of a language, and on each of these two separately considered strata they postulate as fundamental the minimum commutable units which can be found. In the sound system of a language these minimal units are called phonemes; in the grammatical system the minimal units are called morphemes.
- In the investigation of speech sounds, the directly relevant fields of linguistics are known as phonetics and phonemics.
- η Phonetics concerns the details of pronunciation. A phonetic description is usually presented in terms of what goes on in the mouth and throat to produce a certain sound. The various component features that can be isolated as contributing to the total impression of the sound are mentioned. That is, the way the lips are held is one thing that would be noted -- whether they are close together or far apart, whether they are protruded or drawn back. The position of the tongue would figure in the description--whether flat in the mouth or bunched up, whether some part of it is close to or touching the roof of the mouth. The condition of the throat also enters in--whether constricted or open--as does the activity of the larynx, which can be closed or can be opened to allow air to pass through, giving various types of sound production. Also the way all these circumstances change as the sounds are being produced is important to the description. Based on such information, some account is given of the audible effects or qualities associated with the different articulatory features. In the ideal case a phonetic analysis is pursued to the point where a trained reader can have a substantially



adequate idea of the original sound.

Phonemics deals with the question of which sound differences in a given language are the ones that really matter. Sufficiently careful listening reveals a tremendous range of possible sounds in any language, but linguistic investigation establishes only a limited number of units which sufficiently account for the use of sounds as a signalling system for speakers of that particular language. Anything a speaker may say in some

from sum

sun is distinguishable from each of the following: from sin from fun;

each of these contrastive, meaningful differences-sun versus sum, sun versus sin, sun versus fun-cestablishes a phonemic distinction in English. In determining what message a speaker is imparting, the ordinary listening behavior of the native user of a language does not take account of phonetic differences which do not correspond to phonemic distinctions. Other differences between sounds which may be just as noticeable from the point of view of physical measurement, still do not prevent the sounds in question from being regarded as equivalent by users of a given language.

- A pair of sounds that differ in a given way phonetically may be phonemically distinct in one language but not in another.
 - To illustrate this, consider the phonetic quality of <u>voicing</u>. Voicing is the humning sound preserved produced by the vibration of the vocal cords



in the larynx.

The difference between a voiced sound and a voiceless one can be important in English, as may be seen from such . pairs as:

razor lazy dozing rival avid leaving racer lacy dosing rifle aphid leafing

The first row have voiced sounds [z], [v], and the second row have voiceless sounds [s], [f], in the middle of the words. Otherwise, each word in the lower row is the closest possible match in sound to the word above it, so that the two form what linguists—often refer to as a minimal pair. The difference between the voiced and voiceless sounds in the middle of the words is the only significant distinction in pronunciation between the two different English words in each pair. On the basis of such data we say that there are distinct phonemes [z] and [s], and likewise [v] and [f], in English. When representing phonemes in writing, using a single phonemic symbol for each, the most usual convention is to write these between slant lines, while symbols for sounds being considered purely phonetically are put within square brackets.

1) In like way as was done for English, the existence of a phonemic distinction between /z/ snd /s/ and between /v/ and /f/ can be demonstrated for Russian.

рязв of a time (gen. sing.) коза goat зуб tooth ряса гасе кося всутье суп soup грива mane сона owl ванты shrouds грифа griffin софа sofa фанты forfeits

By prolonging the sounds (dozezzzzzing - dosesssssing; leavyvvving - leaffffing) while holding one's fingers against the Adam's apple, it is possible to feel the vibrations in the larynx for - [z] and [v] and to note their absence for [s] and - [f],



In Spanish, also, we can find instances of [z] and [s]:

 $\int z 7 in$ $\sqrt{8}$ / in his, her, their (plural) mismo same 8118 fresno ash tree denso dense eslavo Slav falso false еврого a sketch еврово spouse desde since esta that rasgo I tear rabco I scratch deshielo desjunto I disjoint a thaw deshueso I debone asfalto asphalt and generally in casa house

The difference between Spanish $\lceil z \rceil$ and $\lceil s \rceil$ is not a contrastive difference. It is impossible to produce two distinguishable utterances in Spanish for which an opposition between $\lceil z \rceil$ and $\lceil s \rceil$ has to be considered as the basis for discrimination. No word has $\lceil z \rceil$ in just the circumstances where a different word might have $\lceil s \rceil$, or vice versa. In a case like this, where the phonetic difference is not independently significant for signalling what has been said, the distinction is called allophonic. Thus, for Spanish, $\lceil z \rceil$ and $\lceil s \rceil$ are said to be allophones of a single phoneme $\lceil s \rceil$.

The feature of voicing is, then, not something that matters in the system of the language as far as Spanish [s] and [s] are concerned. It does, however, serve to make a phonemic distinction between /d/ and /t/.

dia	day	A	дви	I shall give	an Brallah	un <u>đ</u> yed
tía	aunt	just as with Russian	MST	there	or English	un <u>t</u> ied



There are languages, though, for which no phonemic distinctions depend upon voicing. In Cree, for instance, there are words which have a $\int d^7$ -sound and words which have a $\int t^7$ -sound.

But there can be no words which differ only by the one having [t] where the other has [d]; this is not a distinction which is ever independently significant, and both the above words have the Cree phoneme [t].

Examples have been given of English (and Russian) word-distinguishing phoneme pairs which differ essentially in that one is voiced and the other voiceless: /z/ versus /s/, /v/ versus /f/, /d/ versus /t/. On the other hand, there are instances in English and Russian where sounds occur which differ as to voicing, but where the difference is not distinctive. For example, in normally rapid pronunciation, 1 is

voiced in glue Bligh voiceless in clue ply.

This is only a phonetic difference among sounds assigned to the same phoneme /1/. We never come across different English utterances conveying different messages and having as their sole essential distinction the occurrance of a voiceless 1-type sound in one where a voiced 1 occurs in the other. Russian, too, may have both voiced and voiceless 1.

voiced жезл чом игл of needles (gen. pl.)

voiceless смысл sense цикл cycle

Again, this is without phonemic consequences, since both types count as instances of the same fundamental sound.

FRICT These statements apply to the Ft. Albany, Ont., dialect of Cree, as represented in materials obtained by Rev. Dr. C. Douglas Ellis.

In Welsh there can be words which differ in that one has a voiced <u>l</u> where the other has a corresponding voiceless sound (written <u>ll</u> in Welsh spelling), making this a phonemic distinction.

potel bottle sil spawn (noun)
castell castle sill syllable

Speakers of any language have developed ingrained habits of identifying as the same sound the phonetically different allophones which do not contrast in their language but count as members of the same phoneme. At first in listening to a new language people react largely in terms of their native-language identifications. Therefore, in comparing the pronunciation of two languages, it is useful to consider not only the differences in phonetic details but also the way in which the sounds of each are organized as a system of signalling units. It is in this latter regard that the techniques and categories of descriptive linguistics are particularly helpful, through the explication of what phonemes and what system of phonemic contrasts each language has and in pointing out how the two ways of organizing sounds mesh and how they clash.



In the text which follows, the sound system of English is presented first, together with some technical linguistic notions about how the sounds of a language are organized (chap. 2). Chapter 3 deals similarly and a bit more summarily with Russian, includin; mention of certain of the problems in determining exactly what is the organization of sounds found there. Then, as the core of this book, the sounds of the two languages are set over against each other in chapter 4.

In contrasting the two languages, it is important to realize that we are not comparing two exactly fixed and unvarying sets of speech habits. American English, the kind with which we are mainly concerned, shows extensive regional and social variation—let alone the different sorts of prevalent pronunciation found on other continents. There is also a considerable variety of types of standard Russian, although not as wide a range as for English. In the discussion, then, there will be occasions for referring to different dialects of the two languages. That term is used here in the sense it has in linguistics, to cover the speech of any group, that speech is sufficiently uniform to be described together as a single system.

In this sense of the word, it follows automatically that everyone who speaks speaks some dialect of some language. The dialects of interest in this work are all acceptable and standard varieties—either of English or of Russian.

END -- Chapter 1



2. A CONDENSED DESCRIPTION OF ENGLISH PHONOLOGY

2.1 Consonants

In English, twenty-four phonemically distinct consonant sounds are used to distinguish words. Examples of each are given below, after the phonemic symbol which will be used to represent it in this study.

/p/	<u>p</u> ie	<u>P</u> oe	рор	wrapper	Phillip_
/b/	<u>b</u> uy	<u>b</u> eau	<u>Bob</u>	ja <u>bb</u> er	hu <u>bb</u> u <u>b</u>
/m/	<u>m</u> y	mow	<u>mom</u>	ha <u>mm</u> er	summum
/t/	<u>t</u> 1e	<u>t</u> oe	<u>tot</u>	ha <u>tt</u> er	Whi <u>tt</u> e <u>t</u>
/d/	<u>d</u> ye	<u>d</u> ough	<u>dud</u>	a <u>dd</u> er	we <u>dd</u> e <u>d</u>
/n/	<u>n</u> 1gh	<u>kn</u> ow	<u>nun</u>	manner	cannon
/k/ 7	χ (<u>chi</u>)	<u>c</u> 00	<u>kick</u>	la <u>cqu</u> er	psy <u>chic</u>
/g/	guy	<u>g</u> o	gig	dagger	<u>G</u> ehrig
/ŋ/			young	hanger	ringing
/f/	<u>f</u> ie	<u>f</u> oe	<u>fif</u> e	ga <u>ff</u> er	tari <u>ff</u>
/v/	<u>v</u> ie	<u>v</u> ow	<u>v</u> er <u>v</u> e	cada <u>v</u> er	oli <u>v</u> e
/0 /	<u>th</u> igh	thaw	wra <u>th</u>	au <u>th</u> or	Edi <u>th</u>
/8/	<u>th</u> y	though	wrea <u>th</u> e	la <u>th</u> er	



		/s/	<u>s</u> igh	<u>s</u> o	<u>s</u> au <u>c</u> e	Va <u>ss</u> ar	ba <u>sis</u>
		/z/	<u>Z</u> ion	<u>z</u> 00	<u>Z's</u>	ha <u>z</u> ard	ea <u>ses</u>
		\ <u>\</u>	shy	show	shush	da <u>sh</u> er	reli <u>sh</u>
		/2/				a <u>z</u> ure	
		181	<u>ch</u> ive	<u>ch</u> ew	<u>ch</u> ur <u>ch</u>	cat <u>ch</u> er	ostri <u>ch</u>
		131	<u>j</u> ive	<u>J</u> oe	<u>j</u> ud <u>g</u> e	ba <u>dg</u> er	villa <u>g</u> e
		/1/	<u>l</u> ie	<u>1</u> ow	<u>1u11</u>	va <u>l</u> or	<u>l</u> aure <u>l</u>
		/r/	<u>r</u> ye	<u>r</u> oe	<u>r</u> ea <u>r</u>	e <u>rr</u> or	ho <u>rr</u> o <u>r</u>
		/w/	Y(wye)	<u>w</u> oe	<u>w</u> c <u>w</u>	po <u>w</u> er	duo (duwow)
		/y/	<u>y</u> i!	<u>y</u> ou	<u>y</u> oţ	law <u>y</u> er	cla <u>y</u> e <u>y</u>
		/h/	<u>h</u> igh	<u>h</u> oe			
no	initial	consonant	eye	owe			

There are several ways in which the consonants in English can be grouped naturally into sets exhibiting certain relationships.

There are sixteen consonants which can be grouped in pairs,

of which one is voiceless--produced without vibration of the vocal cords

--while the other is regularly voiced, accompanied by vocal-cord vibration.

These pairs—with the voiceless member of each pair given first—are as follows:

/ፅ/ - /ፅ/



For the other eight consonant phonemes no difference between vioceless and voiced sounds ever functions to make a distinction between words. Of the eight, /h/ can be considered as normally voiceless, the others (/m/, /n/, /ŋ/, /1/, /r/, /w/, /y/), normally voiced. (Actually some of these may at times be voiceless, e.g. /1/, /r/, /w/ in click /klik/, crick /klik/, quick /kwik/, but this condition is induced automatically by the preceding consonant and does not by itself serve to distinguish words.)

For each of the first three voiceless-voiced pairs there is a third related phoneme for which the position of lips and tongue is the same, but the nasal passage is open.

$$/p/$$
, $/b/ - /m/$ /t/, $/d/ - /n/$ /k/, $/g/ - /g/$

Some of the consonants involve a complete locking, for a moment, of the air passages, and so are sounds which cannot be indefinitely prolonged. These are referred to as stops.



Sounds which are not stops are called continuants. Some of these involve the rough passage of the air at some point of the mouth, creating a noisy effect. These are called fricatives (involving friction).

/\theta/, /\text{\delta}/, /\text{\delta}/

The two English phonemes /c' and /j', which begin as stops and end as fricatives, are sometimes called affricates.

The continuants without appreciable frictional disturbance of the breat stream are called resonsnts:

The ones said so that air can pass through the nose--/m/, /n/, /n/--are called nasals.

Vowels, to be treated in section 2.2, are also resonants.

The English phoneme /h/ is special in that, while it involves friction, this is not friction localized at some point in the mouth but a generalized roughness of a sort known as "cavity friction."

(The terms which have been applied here to English sounds are terms used in linguistics for describing the sounds of any language.)



Further useful groupings of sounds are possible based on similarities in the formation of the sounds in the mouth.

Involvement of lips:

$$/p/$$
, $/b/$, $/m/ - /f/$, $/v/ - /w/0$

Tip of tongue near or against teeth:

$$/t/$$
, $/d/$, $/n/ - /s/$, $/z/ - /\theta/$, $/\delta/ - //$

Tongue against or close to hard palate:

$$(\xi'), (\xi') - (\xi'), (z) - (y) - (r)$$

Back part of tongue involved:

 $/k/, /g/, /\eta/.$

There are technical terms to describe the various mouth-part positions for all these sounds, as:

/p/, /b/, /m/: bilabial (both lips together).

: labio-dental (lower lip and upper teeth) /f/, /y/

: inter-dental (tongue between teeth)

/t/, /d/, /n/, /s/, /z/: alveolar (tip of tongue against or

approaching the gum ridge (alveoli)).

(z', /j', /s', /z', /y'): palatal (tongue against or approaching the roof of the mouth (palate)).

/k/, /g/, $/\eta/$: velar (tongue touching--it could be merely near-the soft palate (velum), the back part of the roof of the mouth).

And more specialized terms:

/1/: lateral - the tongue may touch the roof of the mouth but the sides (latera) are left open.

/r/: retroflex - the upper surface of the tongue made partly concave by the bending up (or bending back, hence retroflexion) of the tongue tip.

/w/ : is usually said to be labial rather than bilabila, as the lips are pursed rather than brought toward each other.



2.2 Vowels

Vowel phonemes of English, as they will be represented in in this study, are illustrated by the examples following:

/1/	m <u>i</u> ss	b <u>i</u> t	f <u>1</u> 11
/e/	mess	b <u>e</u> t	f <u>e</u> 11
124	mass	b <u>a</u> at	H <u>a</u> l
/ \/	muss	b <u>u</u> t	h <u>u</u> 11
/a/	mosque	b <u>o</u> t-f1y	d <u>o</u> 11
/0/	s <u>au</u> ce	b <u>o</u> ught	f <u>a</u> 11
/u/	puss	f <u>oo</u> t	f <u>u</u> 11

Those vowel sounds which usually involve appreciable change in the position of the tongue or lips are regarded as <u>diphthongs</u>, combinations of a vowel phoneme with a following glide. The glide phonemes of English are /y/ and /w/; the glides are produced by movement of the tongue and lips from the position they have for some vowel toward the position they would have for /y/ at the beginning of a word. We will use the term <u>nucleus</u> to refer either to one of the simple vowels ("monophthongs") illustrated above or to a dinhthong. (The term has been chosen since a vowel or diphthong forms the nucleus, or indispensable central core of a syllable.)



The diphthongs generally present in American English are:

/iy/	geese	b <u>ee</u> t	f <u>ee</u> 1
/ey/	m <u>a</u> ce	b <u>ai</u> t	f <u>ai</u> l
/ay/	m <u>1</u> ce	b <u>i</u> te	f <u>i</u> le
/oy/	m <u>oi</u> st	qu <u>oi</u> t	f <u>oi</u> 1
/aw/	mouse	b <u>ou</u> t	f <u>ow</u> 1
/ow/	m <u>o</u> st	b <u>oa</u> t	f <u>oa</u> 1
/uw/	moose	b <u>oo</u> t	f <u>oo</u> 1

The vowels which can occur before /: in English present many special problems for a linguistic description, and further discussion will be given to them in a later section. One obvious factor involved is that many kinds of English speech do not have an <u>r</u> sound except when a vowel follows (this is often called "r-less" English). In this study the other type of speech ("r-ful" English) will generally be discussed.

The ordinary combinations of nuclei and following /r/ when the /r/ is not in turn followed by another vowel will be represented as follows:

/ir/	shear		
/er/	share	/ur/	sure
/\hr/	shirr	/ayr/	shire
/ar/	shard	/awr/	scur
/or/	{short shore		



While the consonant phonemes show a remarkable degree of stability throughout the English-speaking world, different dialects vary tremendously as to vowel nuclei. Dialects Ciffer as to what nucleus occurs in a given word, as for example: whether creek is /kriyk/ or /krik/; whether dog is /dog/ or /dag/; whether soot is /kuwt/, /sut/, or s t/. They differ also as to total number of vowel nuclei used to distinguish words, especially by having diphthongs other than those listed above. The extra diphthongs may appear in quite different sets of words. For example, a diphthong we would represent by / w/ may be found both in the dialects of certain speakers from Toronto, and of certain speakers from Philadelphia; but for the Torontan it replaces /aw/ in mouse, while for the Philadelphian it replaces /ow/ in coke.

Most fundamentally, dialects differ as to how many sets of words are kept distinct by phonemic differences between vowel nuclei. For example, speakers of American English from certain areas do not make the contrast--represented in this study, however--between /o/ and /a/ before a consonant (not including



This is not to say that differences regarding consonants are absent. We have already mentioned the difference between "r-full" and "r-less" English. Another well-known difference is the identity of whale, whether, which with weil, weather, witch, in some dialects but not in others.

/w, /y/, or necessarily /r/ or at the end of a word:

stalk /stok/ : stock /stak/

caught /kot/ : cot /kat/

dawn /don/ : Don /dan/

Claude /klpd/ : clod klad/

law /lo/ : la /la/

paw /po/ : pa /pa/

Various contrasts are made by large groups of speakers of English, but not represented in this study. This omission is based on the feeling that these contrasts are not sufficiently widespread to merit inclusion on a par with the generally prevalent system of vowel contrasts which we are endeavoring to represent here. Some of the more important cases of such additional distinctions will be mentioned in a later section.²

There are also cases where two different dialects, even having the same phonemes, may differ in that a certain contrast is maintained in one dialect in invironments of adjacent sounds where the other dialet makes no contrast. The customary distinction in English between /i/ and /e/, as in hid, /hid/ and head /hed/



²Certain examples are interesting not for their prevalence, but only to show the extent to which dialects differ in the phonemic contrasts maintained among vowel nuclei. For instance, pairs like beet and beat, meet and meat, et cetera, which have identical pronunciations for the vast majority of speakers of English, still are phonemically distinct in certain dialects of Scotland. There are even speakers of English who have different vowel nuclei in poll and pole.

obtains also in most dialects before /n/; however many southern midland dialects of American English do not distinguish those phonemes before /n/, so that tin=ten, Lind=lend, mint=meant, since=sense, and clinch=clench.

There is one quite widespread type of distinction in vowels which is not represented in the usual transcription of this study. This seems to be mainly a matter of length.

Examples of such length contrasts (not necessarily to be heard from the same speakers) are given below. The length, elsewhere in this study disregarded, is here written /:/. The members of the pairs given below, which may be distinguished by length, may also be kept distinct by other speakers in other ways.

Do it when you can. /kæn/ (i.e., whenever possible)

Do it when you can. /kae:n/ (sc. fruit)

am /aem/ bomb /bam/ notch /nač/

ham /hæ:m/ balm /ba:m/ watch /wa:č/

gloss /glos/ logger /logir/

sauce /so:s/ auger /o:gir/

In some dialects of English contrastive length exists where other dialects have a postvocalic /r/.

cod /kad/ cud /k^d/
card /ka:id/ curd /k^:d/

Length contrasts also occur involving other simple vowels; for more details the reader should consult James Sledd, <u>A Short Introduction to English Grammar</u> (Chicago: Scott Foresman & Co., 1959), pp. 45-54.



Length contrasts are often specially prevalent before /r/ followed by a vowel. A common pattern of contrasts involves pairs such as the following:

nearer /ni:rir/ mirror /mirir/
fairish /fe:ris/ cherish /čeris/
furry /fA:riy/ hurry /hAriy/

The picture is still further complicated by other dialect differences involving nuclei before intervocalic /r/. Thus different American speakers of English may have distinct vowels in the first syllables of all three words, or two pronounced the same, or three the same in the sets:

Mary merry marry / forum forest laurel

The transcription used in the rest of the present study represents only some of the possible distinctions; this is done in the belief that what is represented is a particularly widespread pattern.

/ir/	shear	beard	nearer	mirror
/er/	share	Baird	fairish	Mary merry
/ær/				marry
/Ar/ .	shirr	bird	Turry	hurry
/ar/	jar Svar	bard short	starry warring	sorry laurel warren
/or/	shore	board	sorest	forum
/ur/	sure	Lourdes	mooring	during

ERIC

/ayr/ shire Irish
/awr/ sour Skauron
/oyr/ (coir) Moira

In addition it is necessary to mention another vowel which constitutes an additional phoneme in some dialects. Even in such dialects, however, it is not found in a large number of words. A person learning to speak English could manage very well without ever using this vowel, its importance for the present study lies in its comparability with certain sounds in Russian.

Many speakers of English pronounce this word so that it is not the same as the adjective just (as in a just man), nor is it the same as gist, or jest. (The tongue is nearer the roof of the mouth than for just, also further back in the mouth than for gist.)

This vowel will be represented in the transcription by '/d/; it is fairly often found in such (in such a case not rhyming with much, itch, etch, or Butch) and in pretty. Some speakers use it in a variety of other words.

One particular set of words likely to contain the phoneme /3/ are pronunciations, often facetious, of abbreviations not containing a vowel letter, such as Wm. /wom/, Ph. D. / fad.



The classification of vowels according to their formation in the mouth is usually made principally according to two criteria. The first of these is the nearness of the tongue to the roof of the mouth. Vowels are divided by this criteron into high, mid, and low. The high vowels are those with the tongue

closest to the roof of the mouth. Of the simple vowel: phonemes \bigwedge^{of} English /i/, \bigwedge^{o} /, /u/ are high vowels; /e/ and /u/ are mid vowels, /e/ and /u/ are low vowels (/o/ varies from low to $m^{3/2}$)

By the second criteron, vowels are classified according to where in the mouth the tongue is closest to the palate. They are called <u>front</u>, <u>central</u>, or <u>back</u>. For most American English: /1/, /e/, /æ/ are front vowels; /3/, ///, /a/ are central vowels; ///, /o/ are back vowels.

•		Front	Central	Back	
	High	3	3	u	
	Mid	e	^	> 🖭	
	Lov	8 2	A	> 121	

The back vowels of English are also labial or rounded.

(have the lips pursed). Rounding an independent criteron for the classification of vowels since other languages have rounded vowels which are not back vowels (such as the German ") or back vowels which are not rounded (such as the Turkish 1 or Vietnamese y.)



Beside the vowel nuclei already dealt with, other vowel sounds are found in utterances of more than one syllable, for instance in the second syllables of these words:

tal ent Phillip mallet colic villa pillow Caleb pallid island nill valley value. aleph Alice balance relish valor ilsane ? olive cellist calleth village hostile alum pollen shilling

or in the first syllables of these:

enough erase mistake endorse about promote belong arrive escape impose suppose unite

While some speakers make constrasts between different vowel qualities before the same consonant in certain weak syliables, it is also common not to have any such contrasts. The transcription used here will represent the latter type of speech. In all the weak syllables we will write the phoneme /1/. This symbol represents either a vowel of a generally high-central quality (usually closest to/3/of the other vowel phonemes), or it may represent no vowel segment at all, but only the syllabic nature of what are scmetimes called syllabic consonants (as in the second syllables of such words as prism, prison, drizele, blizzard -- transcribed /prisin/, /prisin/, /drisil/, /blisind/). The fundamental characteristic of the phoneme /i/ is the "weak" "reduced", or "obscure" quality of the syllables containing it.



In contrast to /i/, the vowel phonemes treated previously will be referred to as full vowels.

The words in the list

rare transcribed in the present system as follows:

filip	modit	telint	kalik	vili	piliw
keylib	n lid	aylind	ilig	wliy	vailyiv
ælif	%lis	belins	reliś	welir	išiv
alic	čelist	koli9	vilij		hastil
mi la	palin		ğiliŋ		

inat	ireys	misteyk	indors	primowt
bilon	irayv	iskeyp	impowz	yinayt

The transcription represents one obscure vowel, the phoneme /i/, / two obscure-vowel / /iy/ and /iv/.

At this point an important theor tical consideration needs to be introduced. The techniques of linguistics are best suited to dealing with language material that is uniform --- perhaps perfectly suited only to one person speaking in a single style. What we are trying to represent in this study is a general pattern, which will be an approximately valid description for as great a range of types of English as possible. It is quite certain that representation of the reduced syllables by a single obscure-vowel phoneme, as illustrated above, is invalid for many types of English.

Some dialects have a large number of different vowel nuclei in weak syllables, up to at least half as many as are found in syllables with full vowels. If such dialects were the focus of our attention, we would strive to identify the nuclei of reduced syllables with those of the syllables containing full vowels. We would, in fact, say that the weak syllables contained the same full-vowel phonemes with an additional feature of obscurity or reduction. (This feature would be an additional stress phoneme, another member of the set of phonemes delineated in section A below.)

It has been the more common approach in descriptions of English sounds to employ this alternative treatment.

the prisent
In A nitially the analysis involving the inherently obscure vowel /i/ represents occur as /ikAr/ and sucker as /sAkir/.

According to the other approach, the distinction (apart from the initial consonant) is considered a matter of different stress patterns: Weak-strong ('') for occur; strong-weak ('') for sucker. The vowel sequences are regarded as identical:

AKAY

SAKAY

Similarly, where we write immix /imiks/, mimics /mimiks/; distinct /distinkt/, twisting /twistin/, the alternative approach identifies the vowels:

imiks mimiks distinkt twistin

and we will write a difference in varel nuclei rather than in stress to distinguish s. In pairs es

/liwiyz/ /luwiyz/

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Some further comment is required about the phonetic quality of /4/ under various conditions. As was mentioned above, the quality of the obscure vowel usually bears a closer resemblance to /a/ than to any other of the full vowels. The exceptions to this generalization are of two types. The first, already alluded to, covers many instances when /4/ precedes /1/, /n/, or /m/. What is actually pronounced then is a syllabic consonant, and there is no period of vowel sound which is directly comparable to any other vowel phoneme.

On the other hand, the obscure-vowel diphthongs, and /1/ itself under certain conditions, come fairly close to some of the other, more frequently occurring vowel nuclei.

(When English is treated as having an additional stress phoneme, the words in question are considered as including the vowel nucleus whose quality the weak syllable approximates, together with the obscurity-producing phoneme of weak stress.)



2.3 Point of Clear Division

The difference between clear and ambiguous syllable division is a significant distinction in the sound of English utterances. In some cases, the division is clearly marked. This is the case, for example, in grey day or below decks --- where the /d/ clearly goes with what follows --- and likewise in grade A or road edge -- where the /d/ clearly belongs to the syllable which precedes. In the ordinary pronunciation of many words,



however, there may be consonants which do not belong clearly to either the following or the preceding syllable. This is likely to be true of /d/ in the pronunciation of gradation or codex.

Where there is a clear division Λ a syllable boundry, this will be represented by leaving a space between letters in the phonemic transcription.

grey day /grey dey/, gradation /greydey8in/, grade A /greyd ey/ below decks /bilow deks/, codex /kowdeks/, road edge /rowd ej/ The presence or absence of a point of clear syllable division presents certain difficulties for description, in that one way of striving for greater clarity of pronunciation is the introduction of extra points of clear syllable division. Thus /grey dey sin/ is commonly heard instead of /greydey sin/, the wind it receiving particular netention. Also, there is considerable diversity among speakers as to whether certain items are normally said with clear or ambiguous syllable In the examples of the lists below, the ones in the middle column are written without space, since they have the ambiguous type of syllable division in the English speech of many people. There will be speakers, however, who have a clear syllable division in some of these words -- thir is perhaps possible for any of the words in the middle column. A given person reading these lists may have to discard some of the examples as not illustrating the , they are supposed to, but generally some of the rows will give valid examples



of the same consonant in an ambiguous position as well as belonging clearly with what follows or with what precedes.

see-saw /siy so/	Esau /iyso/	peace offer /piys ofir/
showcase	locate	pack ice
/šow keys/	/lowkeyt/	/pæk.ays/
tie racks	Pyrex	fire ax
/tay ræks/	/payreks/	/fayr æks/
pay line	saline	sail edge
/pey layn/	/seylayn/	/seyl ej/
mess kit	Musqat	musk ox
/mes kit/	/m/skeet/	/m.ask aks/
door mat /dor meet/	torment () /torment/	/Aolu Vb/
back track	electron	tract tack
/bæk træk/	/ilektran/	/trækt rack/

The point of clear syllable division is also often referred

to as "open transition", "open juncture", or "plus juncture", It is, in the
present study, considered as phoneme of English, and,
when it alone is being cited between slant lines, it will be
represented as / /.

The examples which have been given would suggest, as is in fact the case, that /_ / usually occurs between words or between important parts of a word. There are many exceptions to this, however. Some speakers of English have /_ / within undecomposible words like Plato, which instead of /pleytow/ is often pronounced /pley tow/ (just as though one were talking of a blay toe). Conversely, many speakers thyme these pairs of words, which for others converse by presence / absence of /_ /.



slowly holy /slow liy/ /howliy/
eyelct islet /ay lit/ /aylit/
soreness comice /sor nis/ /komis/

(There are, of course, other ways in which the words can fail to rhyme, besides differing as to occurrence of /_ /.)

The effect of a clear demarcation point in the stream of speech produced by the phoneme / / arises from several factors; the most important of these are extra length in the sounds which precede / / and extra effort in the sounds which follow it.

hatever comes before / / is lengthened in comparison
with the duration it would have when no / follows it. This
is most notic able when the preceding phoneme is a resonant;
the vowel /o/ or /a/; a diphthong containing /w/
or /y/; or one of the consonants /r/, /l/, /m/, or /n/. With
any of these coming before / / a drawling effect extends over
the vowel of the preceding syllable and the consonant phonemes,
if any, between the vowel and the / / . With other sounds
before it, the point of clear division produces a less marked effect.
The least influence is that on preceding /p/, /t/, or /k/.
These stops are held slightly longer in this situation than
elsewhere.



It is possible to have the same voiceless stop on either side of /_./. Phonetically, three different lengths of stop are heard in the following sets:

With regard to the phoneme that follows it, the effects
of /_ / may be succinctly summarized as involving greater
force in sound production, compared to the case of the same
phoneme not preceded by /_ /.

Here it is /p/, /t/, and /k/ that are most clearly fellowed by a they are Also, if one of them is followed by any of /r/, /1/, or /1/, this latter sound will in turn be voiceless. Note the following pairs:

```
duplex two-place /duwpleks/ /tuw pleys/
```

lognat Snow Queen / lowkwat/ /snow kwign/

(; Other important phenomena are also associated with the greater effort marking the sound following /_ /. Vowels may be preceded by a glottal closure (this is the sound that almost inevitably occurs in the middle of "uh-uh" and "oh-oh").



ŧ

After /, /1/ does not have the velarized² or "dark" quality of other medial /1/'s. Similarly, /r/ is said with the tongue closer to the roof of the mouth than is the case with other medial /4/'s.

ion tie-in /ayan/ /tay in/ pylon tie line /tay layn/ /paylan/ Pyrex tie racks /payreks/ /tay raeks/ orlon warlock /orlan/ /wor lak/

Other consonants show other effects connected with the sharp onset of the following syllable; these will not be discussed here.

Another way of stating the influence of /_m/ on adjacent sounds is to say that sounds following /_m/ are like those at the beginnings of whole utterances, while sounds preceding /_m/ are like those at the ends of whole utterances. This is a helpful point of view in cases like long bow /log bow/ or phase shift /feyz %ift/ where the corresponding sequence (/gb/ or /z%/) without /_/ is either rare or impossible. This alternative formulation of the effects of /__/ is likewise of use in cases where a division can be made at more than one point, as in comparing /k str/ in back strap, ?ks tr/ in fox trot ?faks trat/, and ?kst r/ in text reading / tekst readin/, with /kstr/ in extra dextrose /ekstrit/ /dekstrows/.

It is also worth noting that many immediately adjacent combinations of souns (without intervening /44/) involve anticipation in the first sound of the position for saying the second, or likeness of the second to that of the first to a degree not al all characteristic of the same sequence of sounds separated by /44/.

 $^{^2}$ i.e., with the back of the tongue somewhat raised toward the velum (soft alate).

'2.4 Stress

The differences between full-vowel nuclei and reduced-vowel nuclei () create: marked differences in the prominence of syllables in English. There are differences in prominence. Words of two syllables with full vowels in each syllable may differ as to which syllable is the more prominent. Thus the following words usually carry maximum prominence on the first syllable when they are nouns, but on the second when they are verbs.

forment /torment/

augment /ogment/

insult /insult/
inconse /insens/
eme of stress or accent disting

A phoneme of stress or accent distinguishes these pairs of words. We will write this as acute accent (') over the vowel in the more prominent syllable:

/toment/ (noun): /toment/ (vert)

When, apart from any word in which it occurs, this phoneme is to be A by itself, it will be written

Except for related nouns and verbs, it is difficult to . , if find pairs of words with no differences except the position of the stress phoneme. There are some pairs with only slight further differences such as:

Hormes
/harmiyz/ /barmiyz/ [or/barmiys/]

In this work, whenever a stress pheneme is cited, it is, for convenience, written over a que this also parmies abstracting abstract it a series pheneme — also called weak stress — as /q/ with nemer over the q.

Differences as to which full vowel in a rord occurs with the stress phoneme /a/ are also found in words with more syllables:

```
/q/
```

```
Ancestor ancestral
/densestin; /densestril/

Hecate legatee
/hekitiy/ /legitiy/

regulator regulation
/regyileytir/ /regyileysin/
```

```
capitaline Capitolese/keepitilayz/ /kaepitiliyz/
```

When a word with only a single full vowel is cited by itself, the full vowel is considered as occurring with /2/.

bend append /bend/ /ipend/ mission addition /misin/ /idíšin/ regular particular /régyilir/ /pirtikyilir/ enviable irrevalency /énviyibil/ /irélivinsiy/ practicableness imaginativeness /præktikibilnis/ /imæjiniticais/

Consideration has been given so far only to the stress in single words which were not divided by an occurrence of /_ /. In examining larger groupings which do include /_/,



additional stress differences can be observed. Notice the differences as to which word is most prominent in these sets.

course materials

Christmas present

coarse materials

Christmas Present

(Dickens' Ghost of Christmas Present)

Short connected groups of words can be found with the principal emphasis in any position; e.g. on the first, middle, or last word in a group of three.



wait there then
late spring time
wait three days

meeting people lately
German Spanish teacher
Mary Agnes Johnson

In such cases as those above, the word which is most prominent will be marked as containing another stress phoneme (), the phrase emphasis.

Any word cited by itself carries this phrase emphasis. In close, connected, groups of words, only one word has the phrase emphasis, the others usually carry the stress phoneme /q/.

late spring time /léyt osprin táym/
sand content /osácnd kántent/
articulate pedagogy /artikyilit opédigowjiy/
dictionary pronunciation /odikšineriy prinansiyéyšin/

Groupings including / _ / may exhibit contrasts between having and not having /q/ on parts not carrying /o/.

Notice the following sets, in which a difference in stress is found in the speech of many.

ocóld pláte oéye word
ohót plate obý-word

ocát cáll (by or to cats) owéigh státion ocát call (jeeting) owáy station

lóng ^oÍsland shórt ^ocircuit (literal)

Long ^oÍsland short ^ocircuit (electrical)

gó ^obúy it bring úp the ^osquáshes go ^obý it bring úp the ^ochildren

For many dialects this difference is quite important in distinguishing types of compound words.

The symbol (°) is written approximately at the onset of the most prominent syllable: Michigan /omisigin/, Wisconsin /wisokansin/, Illinois /ilionoy/.

In this treatmentt /º/ is considered as being added to /q/.

2.5 Phrasing

Fairly long stretches of speech are broken up into shorter groups in various ways. Sometimes the way this is done is important to the sense. Cor: ler, for instance:

warmed-over / mush rooms
warmed / over charcoal

or the possible contrast between:

turned-on / lathes turned / on lathes

Description of the sound system of a language must necessarily take account of grouping of words. In the phonemic transcription used here, this is done by writing a symbol at the ends of those coherent groups which are spoken as units. These groups are called phrases.

Most phrases contain a single phrase emphasis (/º/).

A great many features of timing and rhythm contribute to the impression of coherence that a phrase produces.

Phrases may end in three distinctively different ways.

One of these involves a rapid fading away of the voice, often while the pitch level is drifting downward. (This ending is characteristic of normal declarative statements.)

It will be written /1/.

I have to get home ...



Another way of ending a phrase is by a rise in pitch during the last part of the final syllable. This will be written ///. (It frequently occurs at the ends of questions, and also, reversing the generally falling pitch trend, at the end of statements which are made with strong qualification.)

Will I get home?

You know I can't stay. I have to get home. ?

The third mode of phrase termination involves the rhythmic phrase, especially and dynamic features which indicate the end of a A prolengation of the final syllable, but lacks the special features of either /t/

or ///. (This is the way a phrase usually ends when something further is to follow immediately.) It will be written

I have to get home, it's getting late.

When the comphasis occurs some distance ahead of //,

it is noticable that the pitch before the end of the phrase is sustained about level, in contrast to the pitch effects of /// and ///.

The three endings /1/, /1/, and /// are known as terminals.



2.6 Pitch

There is no general agreement among those who have studied the subject as to how a phonemic analysis of the pitch phenomena of English is to be made--there is not even universal agreement that an analysis is possible.

The approach to the analysis of the speech melody of English which shown the most promise assumes that there are four distinct levels of pitch. The occurrence of one or another of these at certain points in any utterance is considered sufficient to explain the differences in tune between different sentences.

Phrases with essentially level pitch form the most plausible basis for assuming that a certain small number of pitch levels are the relevant units for describing English Pitch phenomena.

Level phrases often occur as parenthetical remarks, and especially as indications of who the speaker of a quotation was, or who is the person addressed. The following examples are likely to be read in a way that shows level stretches at differing heights of pitch:



High: "Are you there?" he called back.

Medium: "I think so," she replied.

Low: "Don't touch it!" he warned me.

High: You going, Evelyn?

Medium: Good morning, Mrs. Reynolds.

Low: Stop squirming, Bobby Mardock

An even higher level is likely to be found at the end of questions showing agitation:

High: Will that be all right, Bobby?

Very high: Are you sure you're all right, Bobty?

The pitch-level phonemes will be indicated by superfective script numbers: low, $/^{1}$ /; medium, $/^{2}$ /; high, $/^{3}$ /; very high, $/^{4}$ /. The numbers are written before the syllable to which they apply, or before the termina?.

It is not necessary to specify the pitches on every syllable in an utterance. Only at certain points in a phrase can significantly different levels of pitch occur.

Two such points are found in every phrase: at the phrase emphasis A and at the terminal. Whenever the A

A is not at the beginning of the phrase, the pitch at the beginning is also significant.

Contrast at the phrase emphasic

2 Your 3 lunch is ready. 27

2 Your 2 Tunch is ready, 2

The first of these might be a reminder; the second could appear as one item in a list of reasons for not doing something.

Contrast at the terminal:

The second shows a certain amount of doubt about the outcome.

Contrast at the beginning of the phrase:

The first is an observation; the second is a direction.

It is also possible for the pitch to show a jump somewhere between the beginning and primary stress of a phrase; this introduces an extra point of significant

pitch contrast.

2 We've waited 3 twenty minutes. 1

This extra pitch-point can occur only at a syllable with stress / **

Less common is the occurrence of significant pitch-points

between the A and the terminal, such as are

described by James Sledd in "Superfixes and Intonation

Patterns," Litera III (1956).



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The pitch phonemes which occur in a phrase, together with the terminal at the end of it, are called an <u>intonation pattern</u>. Thus, the usual way of citing statements in English has what we call the intonation pattern /231\$/(whether or not the /2/is accountly present);

He'll finish later. 1 Moderately insistent questions of the type answerable by "yes" or "no" have a pattern which we will write 12331/.

Did you get my 3 letter? 1 1 30 Cán we? 1 1 5 similarly, intonation patterns with an extra pitch point are represented by four numerals and a terminal, as /2321 1/2 for

21 3 want to go 20 home. 1

spoken as somewhat of a pronouncement.

END--Chapter 2

The Phonemes of Russian

3.1 Consonant and Vowel Phonemes

There are thirty-five consorant sounds in Russian which clearly are phonemically distinct. Symbols representing these phonemes and examples for each are given below, together with three other sets of examples in parentheses; these others are to be explained subsequently, since their linguistic status is not quite as clear and requires further discussion.

			·		
•	no conso		whisker	cy_	sou
	/p/	шуд	36 lbs.	су <u>п</u>	soup
	/ b/	. <u>б</u> ут	rubble		
	/m/	<u>м</u> у %	of the muses (gen.pl.)	<u>ум</u>	mind
	/t/	<u> Tyr</u>	here		•
	/d/	上 Ayk	of the arcs (gen.pl.)	•	•
	/n/	<u>н</u> уд	of the bores (gen.pl.)	лу <u>н</u>	of the moons (gen.pl.)
	/k/	kyo	morsel	CTYK CRYE	anging knock
	/g/	ГУД ГУД	of the lips (gen.pl.)		
	/f/	Фут	12 inches	пуф	puff(
	/v/	ВЛЗ	college (Высшее Учебно	ое Заведение)	•
	/s/	<u>с</u> уд	lawcourt	у <u>с</u>	whisker
٠.	/2/	<u>з</u> уд	itch	•	
	/x/	<u>х</u> уд	thin (short form masc.)	су <u>х</u>	dry (short form masc.)
, »J	(/7/	<u>Г</u> о́споди	Heavens:)		
	/s/	шут	jester	сушь	dryness
	/2/	<u> x</u> yk	beetle		*

. /0/	щуг	tandem	куц	curtailed (short form masc.)
/1/	лук	onion	оту <u>л</u>	chair
/r/	руд	of the ores (gen. pl.)	дур	of the foolish women (gen.pl.
/४/	<u>ю</u> т	quarterdeck	су <u>й</u>	poke (imper- fective imperative)
/p/	писк	chirp	глу <u>бь</u>	the deep
/b/	<u>б</u> ие	encore!		
/m/	мисс	Miss	семь	seven
/t/	<u>T</u> uc	У ем	су <u>ть</u>	essence
/d/	диск	disc		
/n/	<u>н</u> из	bottom	сунь	take a poke (perfective imperative)
/k/	<u>к</u> ис	turned sour (rast masc.)		
([g])	<u>г</u> ид	guide)		
/f/	фиск	exchequer	Ру <u>фь</u>	Ruth
/v/	Buc	hung (past masc.)		
/s/	<u>с</u> из	dove grey (short form masc.)	с у <u>зь</u>	make narrow (perfective imperative)
/z/	<u>з</u> им	of the winters (gen. pl.)		
([x])	<u>x</u> urpo	sly (short form neut.))		

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∕ў.∕ щит	shield	пущ	of the wilderness tracts (gen. pl.)
/½1/ жжёт	burns (3d sing. pres.)		•
/8/ <u>ч</u> ист	clean (short form masc.)	мучь	torture (imperfective imperative)
/1/ <u>л</u> нс	of the foxes (gen. pl.)	нуль	zero
/r/ puc	rice	дурь	folly

Russian has five vowel phonemes, illustrated by the examples following:

/i/ Чин	member	TH	you (fam.)	и	and	си	B (musical scale)
/е/ чем	with what? (instr.)	T (T3)	letter T	ex!	well:	все	all
/a/ Чан	vat .	та	that (nom. sing. fem.)	axı	ah!	вся	whole (nom. sing. fem.)
/о/ 0 чём	about what?	то	that (nom. sing. neut.)	oxi	oh!	всё	whole (nom. sing. neut.)
/u/ чум	skin tent /	ту	that (acc. sing. fem.)	yx:	ouch!	всю	whole (acc. sing. fem.)

It is held by some linguists that the sound usually represented by bl in Russian is a distinct phoneme from that usually represented by bl. One argument for this the greater phonetic difference between these sounds than can otherwise be found among variants of a Russian vowel phoneme. There are also peripheral contrasts, as between the names of the letters N and bl (when not called "epol") and the words wishing "use of an [i]-sound" and the kanne "use of an bl-sound" In the present study, such distinctions are regarded as being outside the actual functioning system of the Russian language. The position taken here is that there is a single phonemed/i/, and that bl represents the variety of that fundamental sound found after plain ("hard" or non-palatalized) consonants.

3. 2.

Palatalization

Consonants

is the existence of palatalized consonants — those with the mark beneath the letter in the lists, as p b m t etc. In contract to these, those represented by the same letters without the mark are called plain. (The palatalized consonants have the tongue arched so as to bring the blade close to the palate, and the mark of the palatalized consonants have the tongue arched to the palate of the palatalized by have the tongue arched the torrest transfer the palatalized by have the tongue arched the torrest transfer the palatalized by have the tongue arched the palatalized pronunciation the other has the palatalized pronunciation, otherwise the two have substantially the same type of sound production and the same classification by positions of lips and tongue.

/p/ - /p/	глу <u>п</u>	foolish (short form masc.)	глу <u>бь</u>	the deep
10/ - 10/	грб <u>б</u> а	of the grave (gen.)	грб <u>б</u> я	ruining (gerund)
/m/ - /m/	знако́ <u>м</u>	acquainted (short form masc.)	энако <u>мь</u>	acquaint (imperfective imperative)
/t/ - /t/	суд	law court	оу <u>ть</u>	essence
10/ - 10/		it is necessary	Недя	(girl's name) Hope (hypochoristic) stench (primator)
·/n/ - /n/		yonder	воиь	stench (annimator)
/k/ - /k/		of caviar (adj.)	ли <u>к</u> брный	of liqueur (cdj.)
/2/ - /2/	<u>в</u> он	VeA	новь	"rgin soil

Other common symbols to indicate palatalization are:

(i) p t (j) p t (') p' t' (') p' t' (j) pj t' (') p' t'.

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/v/ - /v/	право	indeed	пра́вя	ruling (gerund)
/s/ - /s/	0 <u>c</u>	of wasps (gen. pl.)	<u>ось</u>	axle
/2/ - /2/	ла́ <u>з</u> а	of the man- hole (gen.)	ภล์ <u>3</u> ศ	climbing (gerund)
/1/ - /1/	мо <u>л</u>	breakwater	модь	clothesmoth
/r/ - /r/	дур	of the foolish women (gen.pl.)	дурь	folly

Although from the linguistic point of view it is the difference between plain consonants and palatalized consonants which serves to distinguish words the distinction between a plain constraint and a palatalized one, when in Russian, it is to be kept in mind that,

followed by a vowel, is made

in Russian orthography by writing different vowel letters.

мыл /mil/ washed (past masc.)	м <u>а</u> л /mal/ small (short form masc.)	м <u>о</u> л /mol/ breakwater	мул /mul/ mule
MMA /mil/ nice (short form masc.)	мял /mal/ kneaded (past masc.)	мёл /mol/ swept (past masc.)	мод (Международный mut/ put/ International Youth Day

Occasionally plain consonants before /e/ are distinguished by writing the letter (3), as in M3p /mer/ 'mayor' vs. Mep/mer/ 'of the measures' (gen. pl.); usually, however, no difference is made in the spelling, as for instance between постель 'bed' with /t/and пастель 'pastel' with /t/. Almost all words in which a plain consonant, from the list of paired consonants given above, occurs before/e/ are recent borrowings into Russian from foreign languages or are abbreviation forms like H3II /nep/ 'New Economic Policy' (Новая Экокомическая Политика)

Special brackets () will be used to factose comments at various points whent the relations between writing and provunciation.



The situation in Russian is such that it is not entirely clear that /k/, /g/, and /x/ are distinct sounds on a par with the other palatalized consonant phonemes. In general [k], [g], and [x] occur before the vowel phonemes /i/ (x) and /e/ (p), and not elsewhere; conversely, the plain sounds [k], [g], and [x] do not generally occur before /i/ and /e/. In other cases involving a pair of consonants, one plain and one palatalized, auch as /m/ and /m/, each, will, occur before any of the five vowel phonemes, and also final A before other consonants. As for example:

пор мал **BCeM** to all (dative) МЫЛ мол мул мил мер МЯЛ мел дом семь seven Final 1

However, the prevailing pattern for [k] [g] [x] and [k] [g] [x] has only one of each pair occurring before a given vowel phoneme; in particular this includes different inflected forms Λ the same stem:

```
i e a o u Final CTyK(knock

KAK (how) KOT (tomcat) Kyp (hen; gen. pl.)

CTPOKÁ CTPOKÓЙ CTPOKÝ CTPOK (ruled line) (instr.) (aco.) (gen.pl.)

k (CTPOKÍ (gen.sing.) (dát.sing.)

KMT KET (whale) of the dog-salmon (gen.pl.)

g (reptile) (year) (droning)

CAYTÁ CAYTÁ CAYTÁ (servant) (instr.) (acc.)

g (CAYTÁ (gen.sing.) (dát.sing.)

FHA TEH
```



(guide)

i e a o u Final

thin

x { xah khan xon passage xyn Λ cyx dry (thort) form (thort) form mate

δποχά flea δποχά (instr) 5ποχή (acc.) δποχ

x { δποχή (gen) δποχή (dat.)

x i τρο sly xépec sherry (short neut.)

In the case of [k] and [k] there are sufficient exceptions to the general pattern to indicate clearly that /k/ and /k/ are separate phonemes:

i e a o u
k акын bard кэб (огкеб) как кот кур
(Central cab
Asian)
k кит кет Кихта ткёт weaves маникор manicure
(Hongolian city)

Also /ky/ occurs in the name Лукьян 'Lucian', but /ky/ in K ямам 'to the pits'. (Final /k/ does not occur.)

The deviations involving the other two pairs are of a much more marginal sort. For [x] and [x] no reliable examples can be cited of either in an exceptional position, and for [g] and [g] only some rather questionable instances

In the prevalent pronunciation of Russian, [x] and [x] have limited possibilities of occurrence; each occurs only next to certain sounds and not next to others. This is a case of complementary distribution. If two similar

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or in the pronunciation of the name of the letter Гав гэ;

[[]g] in the word rolle 'jack' (flown at the bow of a ship), or in the pronunciation of foreign names, as Baktop Doró 'Victor Hugo'.

A further example of complementary distribution involves the variants of the phonema /i/, as mentioned on p. 44 of this MS. The bl variants occur only following plain consonants, otherwise the M variants are found.

(The bl variants are written with the letter M after LII and X(and in some case)

sounds are in complementary distribution, they constitute one phoneme; if not, they must belong to two different phonemes.

The two sounds [g] and [g] are generally also in complementary distribution, it would appear, even if they may not quite be so for some speakers.

The distribution of [k] and [k] is so nearly complementary that for most practical purposes the behavior of the three sets need not be distinguished.

In addition to the plain and palatalized consonants discussed previously, there are three other consonant phonemes with a pronunciation of the plain type and four with a palatal quality.

/s/ <u>ш</u> ей	sew (imperfective)	ve /š,/ <u>ш</u> ей	of the cabbage soup (gen. pl. tantum)
<u>ш</u> ок	shock	щё́к	of the cheeks (gen. pl.)
/ž/ <u>"110ж</u> éй	of the knives	/ž ₁ / ло <u>жле́</u> й	of the rains (gen. pl.)
жёнка	"wifey"	жжёнка	hot punch
/c/ <u>ц</u> елъ	goal	/č/ <u>ч</u> ей	whose
Пок	click!	<u>ų</u> ë t	even number
йe on	look here!	/у/ ей	her
consonant,	from	Йот	(letter) J

Compared to /s/and /z/, /s/and /z/are long. (In place of the simple long sounds, some speakers pronounce /s, /s/s/s and /z/(z/s/s). Some Russians do not have a phoneme /s/s, but rather a long sound without palatal quality, which is treated in this study as /z/s/s the plain sound /z/s doubled.

The mark (,) is written to the right of the letters in the phonemic symbols /š,/ and /ž,/ both to suggest the length of these sounds and as a reminder that they do not bear as direct a relationship to the corresponding plain consonants as do the sounds represented by letters with the mark (,) underneath.



The phonemes $/\tilde{s}_1/$, $/\tilde{z}_1/$, $/\tilde{c}/$, and /y/ will be called <u>palatal</u> but not palatalized consonants.

The choice of vowel letter following m, m, x, u, u is conventional, and differences in spelling such as the following do not affect the pronunciation:

ш<u>о</u>в /ścf/ seam

aypi /žuri/rebuke (imperfective imperative) цикл/cikl/cycle mëл /gol/went (past masc.)

mopi / żusi/umpire

There is no regular spelling for /ž,/; the most common are эж (езжу, поезжай) and жж (жжёт, дрожжи); жд is used only in the root meaning 'rain' (дождливый). For /y/ at the beginning of words й is unusual, the regular way here and after a vowel being to use the lotters e, я, в, м — which after most consonant letters indicate the palatalization of the consonant. After a consonant, /y/ is indicated by the spellings ый, ые, ыя, ые, ыю. Except in this circu stance, where it indicates /y/ before a vowel, the letter ы following ж,ч,ш,щ has no significance for pronunciation (Ць is virtually nonexistant):

pomb/rcs/ rye

HOX/nuš/ knife

Mamb /dni/ you'll give

Ham /naš/ our

neub /get/to bake

Mey/meč/ sword

вещь /yeš,/thing

клещ/kles,/tick

After other consonant letters, (b) indicates that the previous consonant is palatalized. When one palatalized consonant precedes another in certain



clusters, b may or may not appear after the first.

paint (pl. imperfective imperative) ка́сте

to the caste (dat.)

The palatalization of /1/, however, is always shown before another palatalized consonant.

вокользь offhand. > 2.3 Voicing of Consunants

Russian has twenty-two consonants which can be grouped in pairs of which one is voiceless and the other voiced:

/p/ - /o/	noh	sing (imperfective imperative)	бой	struggle
/p/ - /o/	пей	drink (imperfective imperative)	бей	hit (imperfective imperative)
/t/ - /d/	там	there	дан	I'll give
/t/ - /d/	тень	whadow	день	day
/k/ - /g/	кот	tomcat	дол	y ear
/r/ _ /r/	фон	background	вон	yonder
/f/ - /y/	фей	of the fays (gen. pl.)	вей	twist (imperfective imperative)
/8/ - /2/	сад	garden	ABC	rear
/8/ - /2/.	сядь	sit down (perfective	SATE	son-in-law



/s/-/2/ meet pole xect gesture
/s/-/2/cyët calculation xxët burns (3 sing. pres.)

Some speakers of Russian have another phoneme $/\gamma$ / which is voiced and forms a pair with /x: $/x/-/\gamma$ / (i.e. the $/\gamma$ / differs from /x/ only in being voiced/). There is some variation as to what words will be pronounced with $/\gamma$ / even among those speakers who have this as a distinctive sound, but it is likely to be found in:

when Heavens! I swear! bookkeeper когда господи ей-богу бухгалтер

The pair /k/ - /g/ КИТ 'whale' ГИД 'guide' could equally well be listed above. Since [6] and [g] are being treated here as variants of a single phoneme /g/, this one phoneme is the voiced counterpart to both /k/ and /k/.

The voiced members of the pairs do not occur at the ends of utterances in standard Russian, except in especially distinct pronunciation.

Ordinarily, then, in the following pairs of words the same final sound is used in each member of the pair.

/p/	оноп	sheaf	оноб	snob
/p/	сипъ	a rash	<u>анд</u> р	sea swell
/t/	ro <u>r</u>	Goth	год	year
/t/	пять	five	пядь	strand
/k/	лу <u>к</u>	onion	яу <u>г</u>	meadow:
/1/	пуф .	puff	но <u>в</u>	new (short form masc.)
<u>is</u> L	Руфь	_Ruth atandard Russian have	кро <u>вь</u>	blood
JII so	me apeakers of	standard Russian have	different cons	onant beginnings to

Some speakers of standard Russian have different consonant beginnings to such words as Over (Strot) and merks (Stotke) (long (S)). This means that there are dialects in which only merks 'brush', and not Over, contains

a voiceless sound corresponding to the voiced /2,/ in XXET. In the sound sy of such speakers of Russian, words like CYET with [\$5\$] require a different analysis in terms of the phonemes presented above presumably as /\$, \(\tilde{\chi}\) but such a contrast might perhaps necessitate setting up a slightly different system of phonemes for such speakers.

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/8/	у <u>с</u> .	whisker	ў 3	of the ties (gen.pl.)
/.s/	гу <u>сь</u>	goose	су <u>зь</u>	make narrow (imperfectiv imperative)
/ 6/	наш	our	но <u>ж</u>	knife
/š,/	вещь	thing	до <u>ждь</u>	rain
(/x/	мо <u>х</u>	moss	Бо <u>г</u>	God
		if	/y/ is said in	Бо́га, Бо́гу, etc.)

(At the ends of utterances, each of the sounds listed above has at least two possible spellings, depending on whether a voiceless or a voiced sound occurs in related forms before vowels, before the resonant consonants /m/, /m/, /n/, /n/, /n/, /n/, and /y/, or before /v/ and /v/.

The same situation prevails when any of twelve phonemes of the above list occurs before another voiceless sound. On the other hand, before the phonemes b/, b/, d/, d/, g/, z/, and z/ only voiced sounds occur. These may be spelled, however, with the letters usually used to spell voiceless sounds.

/d/	<u> 6</u> <u>т</u> зыв	enswer	/d/	жени <u>ть</u> ба	marriage
/g/	та́ <u>к</u> же	likewise			
/ v/	афганец	Afgan (person))		
/2/	а <u>с</u> бест	asbeatos	/2/	про <u>сь</u> ба	request
/2/	вол <u>и</u> ба . лі	sorcery	/ž,/	вещбы	prophecy
/7/	ді сверхальный Л	ultra-remote			
	дву <u>х</u> зальный	two-room			

The same rule about combinations of sounds holds regarding the end of one word and the beginning of the next, when they are pronounced as part of a



single closely connected utterance.

/b/ Проко<u>́п</u> Захарович

/b/ сы<u>пь</u> же

scatter them!

/v/ Ру<u>фь</u> Борисовна

When immediately preceding one of the phonemes /b, /b, /d, /d, /g, /z, /z, /z, /z, /z, the phonemes /c and /c are also voiced. For /c and /c, never however, voicing is distinctive. This phenomenon usually occurs at the boundary between two words, but in a few instances the voiced variety of /c or /c occurs inside a word.

/c/ Франц Давидович отец-батюшка Шийцберген пять тысяч двести: 5,200 алчба greed

The Russian phonemes /m/, /n/, /1/, /r/, /m/, /n/, /1/, /r/, are all usually voiced, but in certain circumstances the voicelessness of an accompanying sound will extend to one of these as well. The most notable instance of this is at the end of a word, following a voiceless consonant.

MOKP Вепрь ОМЫСЛ МЫСЛЬ ПЕОНЬ КОСМ wanes (gen.pl.) wet wild boar sense thought chant of the manes (gen.pl.) (short iorm masc.).

The presence of a voiceless /r/ in syllables ending in /rš/ is also usual:

морж

RUE

walrus

wire brush

In abbreviation compounds there are sometimes exceptions regarding both voiced consonants before voiceless consonants and the reverse.

обкон / об kom / (областной комитет) (District Committee of the communist party)

госбанк/gog bánk/(голударственный <u>банк</u>) (State Bank)



3. 4 Classification of Consonants:

The Russian consonants can be classified according to the way the sounds are made, as the consonants of English were in the chapter.

Stops:

/p/ /b/ /p/ /b/

16/ 10/ 15/ 19/

/k/ /g/ /k/ (lg))

Affricates:

10/18/

Fricatives:

/v/ /1/ /v/ /1/

/8/ /z/ /s/ /z/

/š/ /ž/ /š,/ /ž,/

/x/ (/y/) ([x])

Resonants:

/m/ /m/ /n/ /n/

/r/ /r/ /1/ /1/ /y/

As in English, the masals have the same position as certain of the stops.

/p/, /o/ - /m/ /p/, /o/ - /m/ /t/, /d/ - /n/ /t/, /d/ -/n/

The grouping of the Russian consonants according to the parts of the mouth involved in their formation is as follows:

Lips { Bilabial: /p//b//m//p//b//m/
Labiodental: /f//v//f//v/

Tongue Dental (touching teeth): /t//d//n//t//d//n//1//near Teeth Alveolar: /c//s//s//z//r//r/

Tongue near /8/ /½/ /6/ /8,/ /½,/ /y/

Back | Back Palatal: /k/[g][x]
of
Tongue Velar: /k//g//x/(/y/)

POOR ORIGINAL COPY-BE AVAILABLE AT TIME FILME

(Lateral: /1/ /1/ Trilled: /r//r/)

[1]/4/14/19/11 are already enther than dental for this speakers who make polational entire the lawer treets.

Vowels;

The pronunciation of the vowel phonemes of Russian varies markedly according to whether the adjacent consonants are plain or palatalized. If the consonant next to a vowel is palatalized or palatal, the effect produced by the position of the tongue near the palate extends to the vowel. The vowel, especially between two palatalized consonants, has a more high and front pronunciation than when pronounced by itself.

Examples are given below of each of the vowel phonemes between consonants: (a) two plain, (b) a palatalized and a plain, (c) a plain and a palatalized, (d) two palatalized. In discussions to follow, the symbol C stands for any plain consonant and C stands for any palatalized or palatal consonant. The meaning of both symbols will also be extended slightly later in this section.

· C - C	C - C	C - C	C - C
быт	бит	быть	бить
state of life	is beaten (short form masc. p.p.)	to be	to beat
деи	слеп	цепь	степь
flail	<pre>blind (short form masc.)</pre>	chain	ateppe
HÀT	МЯТ	нать	мять
checkmate	is rumpled (short form masc. p.p.)	mother	to rumple
о воз	OBEC PIPI	авось	вёсел
against the	oats	mayhap	of the oars (gen. pl.)
ХУН	нид	дунь	нюнь
of the moons (gen. pl.)	of the dunes (gen. pl.)	puff (perfective imperative)	vhimper (imperfective imperative)



Not having any consonant et all after a vowel affects the pronunciation of the vowel in much the same way as the presence of a plain consonant would. Before vowels other than /i/, absence of a consonant similarly resembles presence of a plain consonant as far as affecting the pronunciation of the vowel, but before /i/ the effect of no consonant is similar to that of a palatal consonant.

c - c	C - C
мы	и
3	все
A	вол
0	вов
У	ВСЮ

The effect of a preceding consonant on the phoneme /i/ is greater than the effect of what follows. For the other vowel phonemes, the reverse is the case, the influence of the following consonant is more important. This is in spite of the fact that the letters with which the vowels are spelled -- Y and W, O and E, A and A, B [when written] and e--indicate the nature of the preceding consonant.

The consonants with palatel quality which are not members of a plain//s,/,/ž,/, may/palatelized pair, viz. /č/, /y/, have a somewhat less pronounced effect on the adjacent vowel than the palatelized consonants do.

•	C - C		
чи́ще ей	cleaner	щей	of cabbage soup(gen.pl.tantum)
я́щик		поезжа́й	ride (imperative)
		щёчный	buccal
чуй	feel (imperîective imperative)	щучий	of pike (adj.)



The unopposed plain consonant /c/(YI) imparts less of the "dull" quality other to the adjacent vowel than is characteristic of vowels next to plain consonants; in this its effect resembles that of having no adjacent consonant.

$$C - C$$

СЫТ	full up (short form masc.)	цык	hushi
Tent	awning	цент	cent
сад	garden	цац	of the swellheads (gen. pl.)
сок	juice	цок	click
сук	bough	цуг	tandem

Classified by the criterion of closeness of the tongue to the roof of the mouth, the Russian vowel phonemes /i/ and /u/ are high vowels; /e/ and /o/ are mid vowels; /a/ is a low vowel.

The vowels /u/ and /o/ are rounded; /i/, /e/, and /c/ are unrounded.

The position of the tongue in the mouth varies greatly in the front-andback direction for the pronunciation of a given vowel phoneme, depending on the adjace
thevare!

consonants; is further back next to a plain consonant and further

front next to a paletal or palatalized one. This makes the criterion of
rounding of more fundamental importance for the classification of Russian
vowels than the front-back criterion.

	UNROUNDED	ROUNDED
HIGH	.	u
MID	e	•
TOM_	t mue `	

It is still, however, that relative to each other when adjacent to similar consonants the vowels can be classified as: front, /i/ and /e/; central, /a/; back, /u/ and /o/.

^{14.} The articulatory details related to this quality are summarized at a later point on 4.3.

	FRONT	CENTRAL	BACK
нісн	1		u
MID	Ф	,	o
LOW		a	•

unaccented In syllables,

pronounced less distinctly than in the stressed syllable of a word. (In most cases this involves a pronunciation with the tongue closer to a mid-central position than for the corresponding stressed vowel.) The effects of this reduction, as it is called, are markedly less in the syllable of a word which immediately precedes the main stress than in other unaccented syllables.

/i/I	итог итог	into the total	дымовой (adj.)	вымыто	светы .
·		of attacks	for smoke д <u>о</u> мовой	it is washed (short form neut. p. p.) вым <u>о</u> тал	lights chét <u>a</u>
/4/	Class T 4 T V T	(gen. pl.)	brownie	drained (past masc. perfective)	of light (gen.)
/u/	утбк	woof	ш <u>у</u> мовой of noise	в бмутах in the pools	све́ту to light (dat.)
·/e/	<u>ə</u> rán	stage	эмигра́нт emigrant	пат <u>е</u> р padre	фо́рт <u>е</u> forte
/ 0/.	<u>о</u> те́ль	hotel	бонвивант bon vivant	xá <u>o</u> c primordial Chaos	Bér <u>o</u> veto

The occurrences of /o/ in an unaccented syllable and of /e/ in an unaccented syllable after a plain consonant (or none), have a special status in Russian. They are found only in foreign words incompletely assimilated

to the Russian vocabulary. (In general the letters o and a are read with identical pronunciation in unaccented syllables, both as spellings for the phoneme /a/.)

In unaccented syllables following palatalized consonants, the situation is somewhat more complicated. For the most part, only the vowels /i/ and /u/ are found. The spelling for /u/ is 10, for /i/ it may be 11, e, or 11 certain situations additional phonemic distinctions are made, and there is considerable variation as to these among different speakers. There may even be vacillation between pronunciations on the part of a given individual.

/i/ блести shine! плеченой humeral выклинит will knock out the wedge (pres. 3 sing. perfective)

/u/ блюсти to guard ключевой key (adj.) выклюнет will peck out (pres. 3 sing. perfective)

Some speakers of standard Russian regularly distinguish /i/ (N) and /e/ (e,R) in unaccented syllables. Others do so only in the syllable preceding the main stress — apart from the final syllable of words, which requires special consideration and will be mentioned separately below.

The distinction would seem to be mostly characteristic of meticulous speaking, or of speakers who follow an older standard of pronunciation.

/1/			/e/
в листе	within the leaf	блести	shine! (imperfective imperative)
пр <u>и</u> ду́	I'll arrive (pres. lst sing. perfective)	пр <u>я</u> ду́	I spin (pres. lst sing. (imperfective)
n <u>u</u> týx	drunkard	n <u>e</u> rýx	rooster



/i/

/e/

л<u>и</u>стовой

in sheets (adj.)

плечевой

humeral

выклинит

will unwedge (pres. 3rd sing.

perfective)

выклепать

to unrivet

In final syllables, particularly the inflectional endings of words, the four phonemes /i/, /e/, /a/, /u/, may all be distinguished after palatelized consonants.

/1/	Ва́ни	Johnny's (gen.)	га́сни	die down (perfective imperative)
/e/	Ва́не	to Johnny (dat.)	ши́ре	broader
/a/	Ваня	Johnny	яфря	believing (gerund)
/u/	Ва́ню	Johnny (acc.)	уда́рю	I'll hit (pres. lst sime perfective)

The possible occurrence of vowel phonemes after the plain consonants /2/, /8/, and /c/ is not necessarily the same as after other plain consonants. Quite generally it differs at the ends of words, where unstressed /e/ can occur regularly after these consonants.

/i/	У .и́ши	кожи	У лицы	_ (gen.)
/e/	Ми́ше	коже	у́л ице	(dat.)
/a/	Mima Mike	ко́жа skin-	у́лица street	(nom.)
/u/	Múmy	кожу	Andrica	(acc.)



In other situations, speakers may either distinguish /i/, /a/, /u/, as after other plain consonants; they may have only a two-way distinction, merging /a/ with /i/; or they may have a four-way distinction /i/, /e/, /a/, /u/, as shown above for final syllables. One of the major factors involved here, and in many problems of Russian unstressed vowels, is the extent to which the spelling of a word influences its pronunciation for various speakers and at various times.

\(\text{A particular problem of vowels in unstressed syllables} \)
 involves the third person plural forms of verbs with the spellings and at . Without stress (δρός τ 'they will throw' служат 'they serve') many Russians say /ut/ rather than /at/. \)

Other Phonemes:

The usual pattern in Russian is for each word to have one main stress /4/. In addition to the stressed syllable, it may have quite a few unstressed syllables.

интернационализа́ция выкристаллизующееся

internationalization
what crystalizes out (nom. sing. neut. pres. act. participle, perfective, re-

when a group of words are spoken together (in a single phrase), each regularly carries one stress. It is most frequent for the stressed syllable of the last word to be the most prominent in the whole phrase. Since it is possible, however, for a word other than the last to carry the greatest prominence, the symbol /°/ will be written to indicate the phrase emphasis with whatever /4/ is actually most prominent.

студе́нт отве ча́л сту де́нт отвеча́л

The student was answering. It was the student who was answering.

The normal stress for some words within a phrase is weaker than the stress /4/ which is found on most nouns, verbs, and adjectives.

в место сбора into the meeting place в место сбора instead of meeting

мой брата мой брат wash (your) brother!

ráже бо°ло́та

nastier than a swamp

my brother деже бо лото

even a swamp!



This lesser stress, /q/, is also found on the first part of certain

compounds.

рвизе-оти

southwest

бледно-голубой

pale blue

It also appears in the reading of abbreviations.

CCP

/es es er/

Soviet Socialist Republic

С. С. Эренбург

/és és érinburk/

There are also a few other special instances of the occurrence of /q/.

трёхсо́т

/trdx sot/

of 300 (gen.)

кое-ка́к

/kdya kák/

one way or another

не с кем

/né skem/

there is nobody with whom to

There are a few words in Russian, mostly conjunctions and interposed particles, which may occur without stress when used normally in a sentence. Some of these are almost always without stress; for others the unstressed form is one possible alternative. Examples of a few of these are given below:

Он, мол, хочет, чтоб вы при шли не wants you to come, they say.

Это ведь всем уж из вестно. Why, everybody knows that already.

(The stresses on the words not underlined in the examples above show one particular, reasonably colorless, way of reading these sentences; they might, of course, be said with different stresses on some words if a different emphasis is in mind.)

By words without stress in the sense discussed here, it is not meant to include instances of nouns with the stress shifted to a preposition, (e.g. за город /zagarat/ 'out of town' по полу /popalu/ 'across the fields') or instances like не было /nebila/ 'it wasn't'.



There are phenomena in the pronunciation of Russian comparable to the livision-point phoneme in English (/_/). They have not as yet, however, been extensively described by investigators. It is not known, for instance, whether the possibility of locating word boundaries solely on the basis of what is heard is

as generally characteristic of Russian as it is of English. The tendency is to have /_ / intervening some place between any two stressed vowels -- occurring with either /4/ or // -- whether at word boundaries or between parts of a compound.

Certain effects on pronunciation are quite clearly associated with the now.

occurrence of / _ /. Some of these will be considered.

If an open transition / _ / is present somewhere between an unstressed vowel and a stressed vowel in the following syllable, the unstressed vowel exhibits greater reduction in pronunciation than the partial reduction usually observed in the syllable before the main stress.

довольно	/davolna/	sufficiently
да вольно	/da volna/	indeed willingly
отел <u>о</u> пять	/stál a°pát/	he started again
стало пять	/stála ^O pát/	there got to be five

Some prepositions may occur either with a stress $\lambda_{\bf q}/$ on the preposition, separated by / $_{-}/$ from the following word, or without stress and joined to the following word. This produces pairs like:



If a stressed syllable is the last one before an open transition, the vowel in it is noticeably shorter than otherwise.

тýты та́м /túti
$$^{\circ}$$
tám/ the mulberries are there тýт и та́м /tút i $^{\circ}$ tám/ $^{\checkmark}$ here and there $^{\circ}$ tóxe /tóži/ also $^{\circ}$ tó ži/ the same

A vowel separated from a palatal consonant by /_ / is pronounced with the type of variant which would occur if no consonant stood next to it.

In syllables not immediately preceding the main stress, an unstressed /a/ is pronounced more as a low vowel (with less reduction) when it follows /_ / than otherwise.

иду́ к <u>А</u>лекса́ндру /idú kalik^osándru/ дру́г <u>А</u>лекса́ндра /drúk alik^osándra/

Preceding / _/, unstressed /a/ also shows lessened reduction -- although it is more reduced before / _/ than after / _/.

договория /dagavaril/ he finished speaking
да говория /da gavaril/ he was talking, right enough

The phoneme /i/ after a plain consonant followed by / _ / is pronounced much as after plain consonants generally.



The effects of open transition at other points cannot be simply stated. In impressionistic terms, they suggest description as a checking in the stream of speech before going on to the next sound. Thus there can be clear differences in transition as the only feature distinguishing certain pronunciations of the following pair of items, although this does not fall under any of the types yet mentioned.

там а́рка /tam árka/ there's an arch there ...

та ма́рка /ta márka/ that stamp

Until more studies of the problem are available, the details as to just where / / can occur and how it affects adjacent sounds in each case must be left unclear.

The breaking up of long stretches into phrases is operative in Russian.

The ends of phrases terminate in different ways, which can be assumed to contrast much as do /1/, /7/ and /4/ in English.

About Russian pitch phenomena, no systematic intements can at present be made with much assurance. An analysis representing Russian pitch with four significant levels, similar to those required for English, has been suggested. Such a system will be employed where convenient in this study.

END--Chapter 3



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4. Russian and English Sounds Compared

This chapter considers the relations to be found between English sounds and Russian sounds, both as parts of two different systems and as independent items of pronunciation.

The comparison of the English and Russian sound systems in this work makes a busic division between problems of individual sounds and problems of sound combinations, and likewise in general endeavors to treat separately vowels, consonants, and other types of phonemes.

Such divisions can only be approximate, as there is overlapping influence

smong the various compartments.
In this fonal chapter, the notation R/ / is used for phonemes of lossian and E/ / for phonemes of English.
ftressed Vowels

Certain points about the relations between the vowels of Russian and English can be brought out by comparing charts of the two systems.

Russian		English		
1	u	i e, i u		
e	•	e A _. O		
	A	A CA		

The most evident difference is that Russian has fewer elements in its system even considering only the individual vowe' phonemes and not the diphthongs.



Associated with the smaller number of phonemic distinctions between vowels in Russian, each Russian vowel phoneme has a wide range of pronunciation. The variants of the same vowel phoneme in different circumstances will be found to resemble the sounds of at least two different vowel nuclei of English.

Russian does have sequences of a vowel followed by R/y/. There is little reason within the patterns of Russian for regarding these as inherently different from any other sequences of a vowel followed by a consonant. They are, however, obviously somewhat comparable to the English diphthongs ending in E/y/.

Russian		English	
iy .	uy	iy	
ey	оу	еу	oy
ay		ay	
убийствс murder	буйный violent	heast	
бей beat (imper ≅fective imperat	ood struggle ive)	bay	boy
Mali May		my	

Confusion for the English hearer arises from the fact that in Russian the [y]-position of a following palatal or palatized conscient is anticipated during the proceeding vowel. This is most noticeable in the situation C C when the preceding consonant is (indicated by C) (indicated by C) plain rather than palatalized; the shift, during the vowel, of the basic articulatory position in a palatal direction makes more pronounced the impression of a glide before the consonant.



مترفوة

Russian vowels in the environment C_C need to be distinguished from sequences of a vowel followed by R/y/. Each of these two types bears a similarity to English complex nuclei containing E/y/.

тейн	stein	стань
of the secrets		stand up
(gen. pl.)		(perfective imperative)
войн	coin	конь
of wars	•	steed
(gen. pl.)		
пойло 🥎	boiler	поле
swill		field
Бойля Boyle's		
Boyle's /		

Most dialects of English have no diphthong /uy/, though some speakers do, for instance, pronounce buoy as one syllable not homophonous with boy. For other speakers, the closest analogue of \$\(\mathbb{U}\) /uy/ is \$\mathbb{E}\/\under\u

ру́йся Dewey's rу́ся be sulky goose's (gen.) (imperfective imperative)

Russian K/u/ is a higher, backer, more rounded vowel than E/u/.

English E/uw/ is a diphthony which becomes increasingly higher,

backer, and more rounded during the course of the E/w/ glide,

something which Russian K/u/ does not do. The beginning of E/uw/

may be quite a centralized vowel, so that phonetically the nucleus
is approximately (uw). The end of E/uw/ has approximately

the right quality for Russian R/u/ in the environment C__C. In

eriv! ERIC the positions G C it is further forward, and in G C it reaches an approximately central position. With the fronting, R^2/u also becomes progressively a bit higher and more rounded.

u	دc	<u>cc</u>	Ş\$	u₩
foot	фут Î2 in.	люд folk	ключ key	10ot

For Russian R/o/ the situation is parallel. It is a higher, backer, more rounded vowel than B/o/ and lacks the diphthongal glide of B/ow/. It is closest to B/o/ in C_C. In C_C it is considerably fronted and approaches the height and rounding characteristic of the end of B/ow/.

0	cc	çc	<u>9</u> 9	OM
taught	TOT this	те́тка aunty	тё́тя aunt	tote

Russian |\(\lambda/a\) in the environment C_C may be fairly close to . E/a/. Just how close depends on the dialect of English, since R/a/ in this situation is central, but English E/a/ may be more back than central for many speakers. (Conversely, some Americans have a pronunciation of E/a/, especially before E/t d c/, which is fronter than R/a/.) In C_C R/a/ ranges towards E/æ/; In C_C it is intermediate.

Russian R/e/ in the environment C_C is close to E/e/; in C_C it ranges towards E/æ/; in C_C it approaches E/ey/.

For this reason, the English speaker may easily confuse R/e/ in C_C with R/ey/, although R/e/ in this environment has very little [y]-glide.

æ	CC e	çc	Ş\$	ey
Sal	цел sell whole (short form masc.)	cen sat down (pasi masc. parfective)	centhb herring	sail
• ;	K /ey/	E <mark>®</mark> /ey/	çç	
	Сейм Polish parliament	same	Cemb Eaven	

vowel phoneme, it serves as a fairly good approximation to Russian R/1/ in C_C (b1). The Russian vowel in this position is normally a bit further back than E/e/. Russian R/1/ in C_C is higher and fronter than E/1/ and lacks the glide of E/11/. In C_C, R/1/ is an extremely close high-front vowel.



The relations between the stressed vowel systems of Russian and English show a considerable overlapping in ranges of pronunciation. Diagrams can be made to indicate which nuclei in the two languages are the source of interference. Considering vowels as found with a stress accent?/q/ or?/q/ in Russian and the full vowels of English, these diagrams represent the situation.

vowel or complex nucleus.

The meaning of this shorthand diagram is that it may be said in general that any Russian vowel phoneme has relevant relations to



three English vowel nuclei; one of these involves a [y]; this one is in turn related to a Russian sequence of vowel plus [y].

The order of the symbols in the summary diagram is correct for [U] [O] [A] but V and V' would be interchanged for [I] and [E]. The other simplification lies in the lack of a nucleus /uy/ in most dialects of English, so that [E] uwiy/ fills this spot in the [U] diagram. Note also that [E] [A] is found both in the [E] diagram and the [A] diagram.

The only English stressed vowel nucleus not yet mentioned, of those regularly occurring in most dialects, is /aw/ (hound). The closest analogy to it in Russian is /au/ as in фауна 'fauna'. The Russian sequence, however, divides between two syllables, while the English diphthong is the nucleus of a single syllable.

стра́ус ostrich Strauss

กล์งวย pauses (pl.)

MINHY

lousy

The most serious difficulty with Russian vowels for an American comes in learning to make the proper accommodations to the adjacent sounds.

(For the Russian learner of English,

the problem is to incorporate phonemic distinctions which are strange filtere is one type of situation in which English mixels are individual by to his system. Individuals in a way that Russian wivels are not. The natal actional of ansal sixed (E/m n y/) is enterpreted in vowel sounds preceding it and a tessur exert may carry over into vowel sounds fellowing it.

HAM

HAM

H. 2 Unstressed Vowels

**IUnstressed Russian E/u/, especially after C, in the syllable immediately before a stressed syllable is to be compared with E/u/.

The other English nucleus relevant for comparison is the type of E/iw/ found after E/y c s/. (Even unstressed, Russian E/u/ is usually higher, backer, and more rounded than E/u/, and it does not have the



diphthongal glide normally found in E/iw/.)

султын sultan

fulfil /fulfil/

юне́ц young man

unique /yiwniyk/

Russian R/a/ in the syllable immediately before a stressed syllable
is a higher vowel than stressed R/a/ and approaches Erglish E/A/.
Whether the English vowel to which pre-stress R/a/ bears the closest resemblence is E/A/ or E/a/ depends on the dialect of English.

R B

R/a/

E/A/

постройка building construction

frustration /frastreysin/

ambrosia

umbrella /Ambréli/

алтейского Altaic (gen. sing. masc. or neut.) ulterior /kltirkykr/

B/a/

волке́ми by the wolves (instr. pl.)

olcano /valkéynéw/ (can have B/1/)

Antarctica

ontology /antalijiy/

Акси́нья (woman's nume)

Oxonian /aks6wniyin/



1

Other variants of unstressed \(\frac{1}{1/a} \) with a phonetic quality similar to \(\frac{1}{1/a} \) are found after \(\frac{1}{1/a} \) and next to certain vowel phonemes.

внана́с pineapple unambitious /næbíšis/

(Vowel phonemes do not ordinarily occur immediately next to one another in English AEnglish E/A/ cannot be found in surroundings which make it directly comparable with unaccented 1%/a/ adjacent to another vowel).

coornumenue correlation кооперацие cooperation

In final syllables, in per reft _/, unaccored \tale /a/ is much like

Анна

Anna / den k/

чу́до wonder (noun) Judah / juwdi/

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W

In environments other than those already discussed, unstressed R/a/ and R/i/ after a plain consonant (C) fall within the range of English E/i/. On the average, R/a/ will be a lower vowel than E/i/, and R// will be a higher and backer vowel; English E/i/, however, is subject to considerable variation depending on the neighboring sounds and also according to the dialect of the speaker.

xocor elephant's trunk	hab <u>i</u> t	добыт achieved (short form masc. past participle)		
вижел he squeezed out (past masc.)	vig <u>i</u> l	выжил he survived (past masc.)		
си́зом dove grey (prepositional sing.)	schis <u>m</u>	сизым dove grey (instrumental sing.)		
пальцевбй dlaital	ep <u>i</u> logistic	п <u>ы</u> льцевой pollinic		
водворять put in place	equ <u>i</u> distantial	в <u>и</u> дворять turn out		
соразме́рный proportional	<pre>supererogatory</pre>	с <u>ы</u> роиятный raw		
сороково́й 40th	a <u>u</u> rrealistic	сыроварение cheese-making		

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Russian Wi/ after a plain consonant in the syllable before a stress is only roughly comparable to E/i/.

мышиный machine [less like машина machine] mouse (adj.)

дымо́к Damascus [less like домо́к little house] puff of smoke

пылить polite [less like полить to pour] to raise.dust

Unstressed K/i/ after a palatalized or palatal (or no) consonant,

while less high and front vowel than stressed K/i/, is still higher

and fronter than English K/i/. Also it lacks the [y]-glide which

is characteristic of K/iy/, at least for large numbers of speakers.

filtration /filtreysin/ Фильтрация detraction /diytr ksin/

id.

affix /æfiks/ аффикс taffies /tæfiyz/
(noun)

Before / _ /, Russian unstressed K/i/ and K/iy/ both bear considerable resemblance to A/iy/.

радий ради ради ready /reday/radium for the sake of are glad

(It is to be noted that in certain styles of speech Russians may fail to distinguish final Ci and Ciy. The adjective ending spelled wh, and wh after K, T, X, X, W, is pronounced as either \$\tilde{\chi}\) is pronounced as either \$\tilde{\chi}\) or \$\tilde{\chi}\| ay/; speakers who use the latter pronunciation have only rare instances of unstressed Ciy, for instance Bameii \$\tilde{\chi}\| vasiy/. Even if the adjective ding is pronounced as \$\tilde{\chi}\| ay/, the closest analogue in English is still \$\tilde{\chi}\| iy/.

Стро́гий /strogiy/ or /strogay/ Yogi strict

милий /wiliy/ or /wilay/ mealy)
kind ins mentioned before final unstressed R/a/, rather than R/i/, is comparable to E/i/.

In most cases, the vowels in Russian unaccented syllables which come immediately before a stressed syllable are to be compared with English full vowel nuclei, while those in other unaccented syllables are to be compared with English reduced-vowel nuclei E/iy/, E/i/, E/iw/.

The most characteristic association in the pre-stress position would be:

代/i/ - 宮i/ 代/a/ - 巨/
$$\Lambda$$
/ 尺/u/ - 色/u/ (also \mathfrak{O} i/) (or $\mathfrak{E}/\tilde{a}/$)

In other unaccented syllables, there are in general three Russian vowel phonemes involved, R/i/, R/a/, R/a/, and three English vowel nuclei R/iy/, R/i/, and R/iw/, but the two sets cannot be matched up in a simple way.

4.3 Consonants

Comparison of charts of the Russian and English consonants is useful for a rough indication of the relation of the two systems.

(See attached diagram).



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NON-FOCET	İ			'a				
<u> </u>	۲۷ ,	60			th.		,	
PALATE	70	<u>}</u> ~	٥٠	>N			۶ H	
DENTAL/ALVEOLAR	<u>"</u>	70	v	N	Ħ ·	н		B
INTERDENTAL			Φ	χÓ				
rebio-dental			ч	>				
ribs	۵ı	Д			g ———		>	
ENGL ISH								
NON-POCAL			[]				t)
AELUM	አ አ•	60 A	×	E		•		
STALAS	٧٥		>0, >0,)N (Ô	
DENTAL/ALVEOLAR	t t o	でかって	დ ა	N 5	д ~	H4 H		Hr.
INTERDENTAL								
LABIO-DEUTAL			Ч ~	> ^ >				
S4I'I	Ω ₁ Ν Ω ₁	,a ,			日内日			
	[voiceless]	[voiced]	[voiceless]	[voiced]			ints	
RUSSIAN	Stop (Affricate)		Fricative		Nasal	Lateral	Other Resonants	rtil

5.

It is evident that certain elements in each system are not directly relatable to anything in the other. That is, we can say that the consonant phonemes essentially most foreign to the other language are in English $E/w \theta \delta j r \eta h / and in Russian <math>R/c r r x \gamma / .$

In certain cases a phoneme in one system may be compared to a sequence of phonemes which exists in the other. Thus, we need to consider the relation of \mathbb{E}'/\tilde{j}' to $\mathbb{R}'/d\tilde{z}'$ ($\pi \times T \times$) and of \mathbb{R}'/c' to $\mathbb{E}'/ts/.$

In some circumstances the English consonant phoneme $\mathbb{Z}/w/$ must be considered comparable to the Russian vowel phoneme $\mathbb{R}/w/$, as for instance in the previous discussion of the relation between $\mathbb{Z}/w/$ and $\mathbb{R}/w/$.

The most basic difference between the consonant systems of English and Russian is the contrast between plain and palatalized consonants which pervades the Russian consonant pattern.

To a first approximation, Russian plain consonants are comparable to English consonants before the back-vowel phonemes E/u/ and E/o/. Russian palatalized consonants are like English consonants before E/i/, E/iy/, and E/y/.

Consonants followed by E/y/ in English are generally to be found only before E/uw/, E/ur/ and E/i/. From the point of view of comparison with Russian, the interesting possibilities are those represented by:

spew	i m <u>b</u> ue	<u>m</u> ute	<u>f</u> ew	<u>v</u> iew	s <u>k</u> ew
(tune)	(<u>d</u> uke)	te <u>n</u> ure (<u>n</u> ews)	(<u>s</u> uit)	(Zeus)	
va <u>l</u> ue	(<u>l</u> ute)	•	e <u>r</u> udite	(rude)	



The words in parentheses above have $\frac{1}{2}/y$ in fewer types of American English. In stressed syllables $\frac{1}{2}/1y$ and $\frac{1}{2}/ry$ (lute, rude) are not common. (Some dialects, which use /iw/ in place of $\frac{1}{2}$ /yuw/ after consonants in stressed syllables, have consonants followed by /y/ regularly only before /i/:

impudent

nebula

tremulo

inoculate

angular

nephew

Savior

Approximate equivalence may be said to exist between Russian and English sounds at the beginnings of these words:

b бут rubble boot

b бюст bust

бис encore! beauty

beast

The situation is further complicated, however, by the existence of clusters of palatalized consonant followed by R/y/, which are also roughly comparable to English E/by/, etc.

Çу

льют they pour ç

лют ferocious (short form masc.)

льёт pours

лёд ice

рьян fervent (short form masc.) ряд

пье́са stage play песня song

семьй famTly's (gen. sing.) сеий

of seven (gen. sing.)



There are also, at least for many speakers of Russian, clusters of plain consonant followed by R/y/.

ç	ÇУ	Су
odëprka	бьём	объём
cover	we beat	girth
вя	жнивья	въявь
elm	of stabble (gen.)	in reality

Subject, then, to the imitations on the occurrences of where /C/stans for any consonant sequences of Cy in English the following diagram schematizes the relations of elements in the two languages relevant to the plain VS. palatalized distinction in Russian. Since is virtually limited to occurrence before // uw/, // ur/, // iw/ and // ir/, the closest sounding sequence in English to R. /Cy/before vowels other than R/u/ is often E/Ciy/.

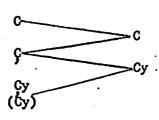
пьяный piano /piyæniw/
drunk

быём beyond /biyánd/
we beat

Obviously, this presents another . possible type of interference of English habits in the learning of Russian pronunciation.

In English, furthermore, many words vary between a hurried pronunciation with E/Cy/ and a careful pronunciation with E/Ciy/

menial E /miynyil/ or E/miniyil/!





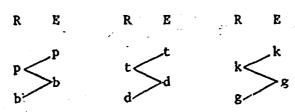
Both the plain and the palatalized consonants of Russian involve types of sound formation which are strange to English speakers. In the case of the palatalized sounds part of this is quite apparent; simultaneously with the other aspects of pronunciation, the blade of the tongue is held near the palate, as it is when [y] is pronounced.

As has been noted in discussing vowels, the effect of the [y]-pronunciation simultaneous with the consonant is often extended so that it markedly affects an adjacent vowel.

For plain consonants, the basis for the special features of the sound are less obvious. Plain and palatalized consonants in Russian differ not only as to position of the tongue in the mouth but also as to the sperture of the throat cavity. The passage through the throat is more open for palatalized sounds and tighter for plain sounds. Aussian plain consonants are accompanied by more constriction than are their English counterparts; as a result, they strike speakers of English as sounding "dull" or "muffled". In addition, Russian plain consonants are pronounced with a certain amount of lip tension, even when not adjacent to one of the rounded vowel phonemes (R/u/ or R/o)).

A speaker of English who wishes to acquire an acceptable pronunciation of Russian has to learn new habits for making the plain sounds as well as for the palatized ones.

One important difference found in comparing the consonants of Russian and English is the way in which the corresponding stop phonemes -- represented by the same letters in the phonemic transcriptions of the two languages -- do not match closely as to phonetic quality of pronunciation. Diagrammatically, the situation can be represented thus:





The differences are most pronounced when the consonant begins a stressed syllable. In this circumstance, \$\mathbb{E}/p/\,\mathbb{E}/t/\,\$ and \$\mathbb{E}/k/\ are aspirated, i.e. the stop closure is followed by a short period during which there is a fairly audible escape of breath before the voicing for the vowel of the syllable begins.

\$\mathbb{R}/t/\,\mathbb{P}/k/\ \text{ are unaspirated}; the voicing of a following vowel or other

voiced sound QV r r 1 } m m n n y v y /) begins immediately after the closure for the stop is opened.

The difference between 2/b/, 2/d/, 2/g/ and 2/b/, 2/d/, and 2/g/ in this curcumstance consists principally in the fact that the period of voicing while the stop closure exists is much shorter in the case of the English sounds.

These differences in the timing of the starting of vocal cord vibrations result in the possibility of confusion between $\mathbb{R}/p/$ and $\mathbb{E}/b/$, $\mathbb{R}/t/$ and $\mathbb{E}/d/$, $\mathbb{R}/k/$ and $\mathbb{E}/g/$.

STOP CLOSURE VOICING

SIZE SIZE ST

Hass E/p/

K/p/

5.221000000

岩/b/

`- A∱baasasasa

ाक्षा <u>विकास</u>

R/b/

Time ———



pool	пуд 36 pounds	boot	бут rubble
two	Ty that (acc. sing. fem.)	đo	дух spirit
cool	Kyc morse1	goose .	nycr: dense (short form masc.)
plot	плац parade ground	blot	блат thieves' cant
clean	клин wedge	glean	глин of clays (gen. pl.
tress	треск crash	dress	древко flagpole
quash	KBAC: kvii95	guava	ГВОЗДЬ nail
twice	тварь creature	Dwyer	два two

After E/s, E/p t k/ are unaspirated and in this circumstance they come closer to the pronunciation of E/p t k/.

spool	пул		
stool	ту		
school	кус		

After E/f s s/ the onset of voicing is not markedly delayed, and in this respect there is no important difference from Russian sounds.

Initial R/v y z z z'/ are voiced from the very beginning of the fricative sounds, while in initial R/v/ and R/z/ the start of voicing is considerably delayed so that we have in effect $rac{f}{v}$ and $rac{g}{z}$. (Initial $rac{g}{z}$ / is rare—some speakers use it in partially anglicized French words such as genre—so it does not



enter the picture here.)

photo	фо́то id.	vote	BOT there
soup	суп id.	zoom	зуб tooth

It is also true that final voiced stops and fricatives in English are only voiced part way through the sound (robe [-bp], road [dw], rogue [gk], rove [vt], rose [zk]). Since, however, Russian normally has only voiceless final stops and fricatives, this is of only slight interest in contrasting the two languages. In this section consonant phonemes will be treated in groups which exhibit similar inter language relationships. The discussion will also treat other differences in pronunciation less basic than those of the preceding sections, in that they are less structurally relevant for comparison between the two languages.

The first group is one for which the important relations are only those already discussed involving palatalization and voicing, and for which the English consonants being considered frequently occur before E/y/.

(nicoripedit)

C <u>, Pu</u>sey пьющий <u>| puss</u> peace \ пуск писк пестый setting in drinking chirp mot ley motion (pres. participle) <u>beauty</u> boot бьют 7бут beast бис <u> и бю</u>ст rubble encore! they beat <u>мю</u>д 1 mood mere mute семью мир <u> Смудр</u> peace wise (short (instrumental) form masc.) R E

are much the same as in the previous one. The major difference lies in the great rarity of Russian [ky] [gy] and the limitations as to where /k/ and /k/, [g] and [g] occur.

C	·		ç	Ç		Су
куб cube	соор	keep	кип of stacks (gen. pl.)	Кюсю Kyushu	accuse	(Лукья́н)
rypr herd	gourd	gear	гирь of clock weight: (gen. pl.)	S	argue	

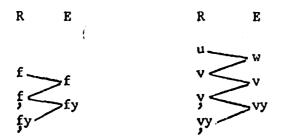
Russian R/f/ and R/v/ are pronounced with the lower lip pushed

further forward than for English E/f/ and E/v/.

For Av/ there are some additional factors involved. Russian the latter

N/v/ is relatable to E/w/ while it in turn is in certain environments comparable to Russian unstressed N/u/. Otherwise, the relationships involved in this group are much like those for E/p/ and E/b/.

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The sequence \mathcal{R}_{j} fy/ is rare in Russian

С			ç	Ç		çy.
фут foot	foot	fiend	Финн Finn	графя graphing (gerund)	fue1	скуфья́ skull-cap
BOT there	vote	veal	вил of a pitch- fork (gen. [pl. tantum])	червю́ worm (dative)	view	BbW I twist
			•			•
<i>:</i>	Æ/u/		Ĕ/w/		₹/v/	
,	уэ́льс Wales		Wales		вальс waltz	
	дуэ́ль duel		dwell		ДВА two	•
	гуано guano		guano		гва́рдия guards	
	туале́т attire		twilight		творе́ц creator	

Even though Russian unstressed R/u/ before a stressed vowel often sounds more like l/w/ than does l/w/, Russians generally substitute l/w/ for l/w/. This is probably influenced by the fact that unstressed l/w/u/ before a vowel represents an unusual pattern in Russian.

As was pointed out before, Russian R/au/ is comparable to English E/aw/. There are also examples in Russian of R/ou/. These,



chose

/čowz/

however, are too rare to have much importance for comparison with English E/ow/.

crpáyc Strauss ostrich

Llóy show anchovy Shaw /šów/ anchovy

R E

Russian R/n/ and R/n/ are dental, with the tip of the tongue touching the back of the upper front teeth while E/n/ is alveolar, with the tip of the tongue against the gum ridge a bit behind the upper front teeth.

C Ç Ç Ç Çу

Hy noose niece низ святыню continue латынью
well, now! bottom sacred object Latin (language)
(accusative) (instrumental)

For initial E/n/ and E/ny/ the relation to Russian depends upon the dialect of English.

The principal difference between the next and the previous groups is the limitation of English 2/sy/, 2/zy/ to certain dialects. Certain speakers who otherwise lack 2/sy/ 2/zy/ have these clusters in a few words, particularly in what are often considered more elegant pronunciation.

issue /isyuw/ visual /vizyuwil/ /viziwil/ /vizwil/



(For various reasons, including these pronunciations and also such relations as

n tenant s fissile z seize

ny tenure š fissure ž seizure

there is some tendency for the speaker of English to regard [sy] and [s], [zy] and [s] as equivalent).

Çy суп issue сипл e1k hoarse (instr. sing.) (short form (dat. sing.) masc.) ВСЮ C/syuwe/) all (acc. sing. fem.) closure кня зю 3.76 **Z**00 zeal MNE tooth of winters prince (dat. sing.) (instr. sing.) (gen. pl.) Zeus (/zyuws/) (acc. sing.)

Like R/n/, Russian R/t t d d/ are dental rather than alveolar.

In certain environments, especially at the end of a syllable

(Math mother Behbma witch) Russian R/t/ and R/d/ may sound

to English speakers like E// and E/j/. The absence of E/ty/
E/dy/ in many dialects makes E/R/E/j/ the most generally

comparable sounds to R/ty/ and P/dy/.

(As with the previous group, there are tendencies towards equating E/ty/ and E//,E/dy/ and E//, supported among other



things by variant pronunciations.

and by relation to other combinations:

The relation between E/j/ and R/c/ involves the voiced type of R/c/ occurring before other voiced sounds.

ал <u>ч</u> ба́ greed		прочь же scram			до <u>чь</u> Давида daughter of David)		
C			ç	ÿ		ÇУ	č
tyr tight (short fo masc.)	took rm	teak	тик id.	rep rubbed (past masc.)	chore (ma <u>tu</u> re)	Batuu Saldsaw	чёрт Devil
nym of though	doom ts	dean	дин of dynes (gen.	дю́на dune pl.)	Juno (dune)	дья́кон deacon	
•				Kaтю Kathy (acc.) медвед bear (dat.	statue Korocedure	платью dress (dat. sing.) медью соррег (instr.)	плачу weeping (dat. sing.)

sing.)



R E R E

a [80

The relationship of these consonants is much simpler. The phonetic quality of English E/\tilde{s} is closer to that of the palatal E/\tilde{s} than the plain E/\tilde{s} . The length (or complexity) of E/\tilde{s} ,,,

however, sets it apart from English E/s/, so in this respect plain

The quality of the plain R/s/ and R/z/ in Russian is

R/s/ seems the closer largely produced by the protrusion of the lips, especially
the lower lip; this is more important in distinguishing them from the corresponding English
bounds than the fact that the most raised part of the tongue is further back in the mouth for

the Russian sounds.

meй shay meй of cabbage soup (imperfective (gen. [pl. tantum]) imperative)

Tóже osier поэже

Although we generally consider E/r/ and R/r/ as being equivalent elements in the two languages, Russian. R/r/ is not at all like the typical American English E/r/, as say in roar E/ror/. Russian R/r/ is a trill in which the tip of the tongue vibrates against the aveolar ridge, usually touching it at least twice. The English E/r/ is typically a retroflex resonant with the tongue near the palate and accompanied by protrusion of the lips. The E/r/ phoneme has an extremely wide range of variants in different phonetic environments; furthermore there are important differences between British and American pronunciation.

Some Americans do use a trilled type of E/r/ after E/8/ as in through E/8ruw/ - this is the type of r-sound which telephone operators are instructed to use in three.

The special type of voiced \underline{t} -sound which many Americans use before unstressed vowels (after another vowel) in words such as city, bottom, senator is very much like one tap of the Russian trilled R/r/.

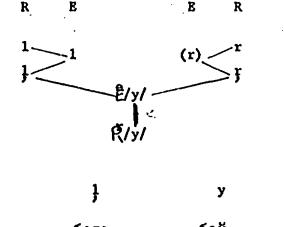
Palatalized R/r/ presents a peculiarly difficult problem for Americans in that it is structurally different from English sounds both in the basic manner of producing the sound and in the feature of palatalization. A variety of English E/r/ which bears some resemblance to Russian palatalized R/r/ is found in stream E/striym/.

•		R E		R E		,
·		} } }	У	r (r) (ry)		
C			ç	ç		Ç У
лук onion	1cok	leak	лик outward appearance	люк hatchway	luke	льют they pour
	. 1. , .			Валю Val (hypo- coristic) (acc.)	va <u>lu</u> e	ста́ <u>лью</u> steel (instr.)
cpy6 felling	th <u>rough</u>	stream	три three	Ве́ры I believe	vi <u>ru</u> lent	дверью door (instr.)

While the same type of pattern of interference as for most other consonants extends to E/1/ and E/r/, the situation is further complicated by the fact that the English hearer may very easily equate both R/1 and R/1



with E/y/:



ŗ	}	У	
спорь argue (imperfective imperative)	боль pain	бой combat	Ъоу
sapes of glows (gen. pl.)	за́лежь [coal] bed	зеяц hare	Zion /záyin/
дворя́н of the noblemen (gen. pl.)	поля́н of clearings (gen. pl.)	бая́н accordion	Dianne

The Russian velar fricative R/x/ is sometimes considered comparable to English E/h/, but only because neither of these sounds has a really close match in the other language.

The pronunciation of E/hy/ used by many speakers in huge E/hyúw]/, Hugh E/hyúw/, human E/hyúwmin/ and the voiceless variety of E/y/ following the aspirated stop in cube E/kyúwb/, pure E/pyur/ are similar in phonetic quality to the palatalized variety [x] of Russian K/x/ as heard in xitphi 'sly'. The usefulness of this comparability is limited by the fact that [x] occurs before K/i/ and K/e/ while the voiceless type of E/y/ is found mainly before E/u/.





Russian R/c/, as was mentioned before, needs to be compared with the English sequence E/ts/. Russian has also sequences of R/ts/. Many places where the spelling might suggest R/ts/ the prevalent pronunciation is actually R/c/.

шве́дский
Swedishсове́тский
Sovietlike
GermanПетрозаво́дскИрку́тскlikeЛуцк

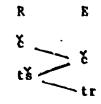
Pronunciation of the sequence spelled TCH and TECH in verb forms seems to be subject to considerable variation. The currently R/ccd/, which has a preferred standard appears to be phonetically [c] which has a lengthened stop portion at the beginning. Other pronunciations which R/cc/, are used by some people are A and simple

English 2/ts/ . (only exceptionally for some speakers found at the beginning of words (e.g., tsetse) so that Russian initial K/c/ is quite foreign to the patterns of English.

R /c/	! /ts/	R/ts/
поцелуй kiss	pi <u>zz</u> icato	noncuxáth to dry up
прецеде́нт precedent	pre <u>tz</u> el	председатель г/ts/ president
Троцкий	T.o <u>ts</u> ky	б <u>тс</u> туп space (between)

(In rapid speech K/ts/ may in fact be replaced by 13/c/.)

Besides (ζ') , Russian has occasionally the sequences (ζ') , (ζ') , (ζ') , and (ζ') The first of these is actually the closest equivalent in Russian to the English sequence (ζ') .





очёски

achieve

отшёл

a troll

combings

went away (past masc.)

кучи heaps

cootchie!

ху́дший

Au<u>tr</u>y

τότιας (τοτιάς)

at once

бтчим

stepfather &/tč/

in vain

R/cs,/

THETHO?

4.4 Other Phonemes

The effects produced by $\hat{\mathbf{E}}$ _ / and $\hat{\mathbf{R}}$ _ / are in some respects diametrically opposed. In Russian the syllable before R _ / is rather abruptly terminated; in English when the preceding syllable ends in a resonant it is prolonged.

> англосакс Tangla saks/ Anglo-Saxon (man)

undulation Thnjileysin/

ди гласит he declares fon glasit/ .

ungelatinous //njiletinis/

Another noticeable difference is that the glottal closure often before vowels which follow 🗗 🚾 / in English is not found in Russian.

> DCE STO all this

saw edge /so_e}/



In the comparison of stress phonemes, these are approximately equivalent:

R E

o — o

$$R/q/ = R/q/$$
 $R/q/ = R/q/$ unstressed full vowel

unstressed vowel $R/q/ = R/q/$

трыз окость gréased ocars grawed a bone

Anglo-Saxon

Anglo-Saxon

My dolly

жоть час at church

for only an hour

The greatest difference in pattern of occurrences is that in Russian \Re / q is as a rule separated from \Re / q by an occurrence of \Re / q somewhere between; in English, on the other hand, an unstressed full vowel may or may not have \Re / q between it and \Re / q .

pay line	vs.	saline
/pey layn/		/seylayn/
warlock		orlon
/wor lak/		/orlan/

There is a degree of comparability between Russian unstressed vowels in the syllable before the stress (either R/q/ or R/q/) and an English unstressed full vowel when it occurs in a like position. This is the case in English words like electrician /ilektrisin/ (cf. 3 Dektp: ueckin) but this is not a common pattern for English



words - unfortunately, from the point of view of making use of English habits in acquiring Russian pronunciation.

It is believed that the intonation in both languages is reasonably well analy ed in terms of four pitch level phonemes:

(R/1/ R/2/ R/3/ R/4/

면/1/ 면/2/ 면/3/ 면/4/

The pitches written similarly are then in each case comparable for each level from 1 (lowest) to 4 (highest).

Similarly comparable to the English terminals $\mathbb{E}/|/\mathbb{E}/\mathbb{I}/$ and $\mathbb{E}/\mathbb{I}/$ would be the Russian terminals, $\mathbb{E}/|/\mathbb{I}/\mathbb{I}/$ (and quite possibly $\mathbb{E}/\mathbb{I}/\mathbb{I}/$)

The most striking differences between the intonation of Russian and the intonation of English are not in the sound of the possible tunes for groups of words, which are roughly speaking the same in the two languages. The discrepancies lie rather in the meanings conveyed by the intonational patterns. The intonational pattern proper in one language in a given situation is often quite inappropriate if used for that situation in the other language.

When a Russian word affected by a single pitch-level phoneme receives a phrase emphasis ([//o/), there is a marked impression of the pitch of the voice rising on the stressed syllable. For the corresponding situation in English, the pitch of the stressed syllable remains comparatively level.

40 Можно отворить окно? 1 1 May I open the window?
40 Why did he want to get out? 1 1



A.5 Conflicting Patterns

Of the sounds which occur in English but not in Russian, there are a few for which the patterns of their use in English can interfere with the learning of Russian by English speakers.

E/17/

English the only nasal sound usually found before E/k/ and E/g/ is E/n/, there is a tendency to substitute [nk] and [ng] in pronouncing Russian words. As with all instances of this sort, this is most pronounced when the words are associated through similarity in both sound and meaning with English words.

E/ŋ/ K/n/
bank банк
English английский

P/w/

In words where |\(\frac{1}{\psi}\vsi/\) occurs after a consonant, (w) may get substituted for (v) on the basis of the fact that \(\frac{1}{\psi}\vsi/\)-rather than \(\frac{1}{\psi}\vsi/\)-rather than \(\frac{1}{\psi}\vsi/\)-frequently follows consonants.

E/w/ K/v/ equivalent эквивале́нт

色/4

There is a strong tendency for speakers of English to replace any unstressed vowel in Russian by some variety of the English obscure vowel 21. Cometimes such a substitution will be sufficiently close to the Russian vowel but often it will result in an unacceptable pronunciation. The relations involved were in part discussed in the



section 1.2

under unstressed vowels. (The exact details involved are too complicated for consideration here, as they involve dialectal and stylistic variation in both languages and permiss ble alternate pronunciations in Russian.)

4.6, Consonant Clusters

There are important differences between the two languages in the types of limitations found on the occurrence of consonants in clusters. In general more varied combinations are possible in Russian than in English. Both languages have greater variety in medial than in initial or final clusters.

The mos increased class of restrictions in English affects the position in clusters of certain types of consonants, in particular resonants; these tend to occur adjacent to the vowel nucleus. Onitting further, more special, limitations, the following diagram summarizes the pattern.

Initial Clusters

Final Clusters

(s)p, b (s)t, d (s)k, 8 f, 0 s, 8	y v r 1	<u>Yovel</u> <u>Nucleus</u>	r n n	Other Consonants	8 z t: d (θ)
-----------------------------------	------------------	--------------------------------	-------------	---------------------	--------------------------

Some additional initial consonant clusters are found starting with E/s/ (orE/s/).

smile snail sphere svelte (shmoo schnapps)



Final clusters 2/sp/E/st/E/sk/ also occur; these provide the only cases among English non-medial clusters of the same phonemes appearing in alternate arrangements.

E\ab\	asp	E\bs\	apse
P/st/	past	É/ts/	pats
E/sk/	ask	F/ks/	ax

Russian does not have similar limitations on relative positions of types of consonants except for R/y/ which occurs only adjacent to



vowels. Many pairs of phonemes can occur in either order.

Initial:

17./tr/	труд	labor	1 ₹ /rt/	ртуть	quicksilver
(%/ g1/	глаз	eye	戊/1g/	лгать	to tell lies
R/v]/	влечь	to attract	K/1,v/	льва	of the lion (gen.)
Pyčm/	чмокнуть	to smack the lips	戊/mč/	мчать	to whisk away
Final:					
R/rt/ R/ck/ R/fk/	Mopr	sport manyac central boar	Ř/kr/	MOKP	inspection is (stone temporare)
R/fs/	Ковш	dipper		подошв	of letters (gen. pl.) of soles (gen. pl.)
	гимн	-	₹/nm/		assemblage

In both languages most of the long final clusters are due to a limited number of affixes.

In English all four-phoneme final clusters, and many three-phoneme ones, result from the suffixes spelled s, is and ed.

[mpts/	tempts	E/mpst/	glimpsed
E/gkts/	instincts	E/gkst/	jinxed
E/rsts/	thirsts	E/rpts/	excerpts
E/rldz/	worlds	£/ksts/	texts

In Russian a fair number of nouns with the suffix -CTBO may be used in the plural; the genitive plurals of these account for many of the longer final clusters in Russian (all gen. p. "of the ...s")?



Pustf/	качеств		quantities
Rotf/	средств		means
R/pstf/	удо́бств		comforts
R/mstf/	земств		district assemblies
R/nstf/	та́инств		sacraments
{\kstf/	бегств		fleeings
A/fstf/	Нейстивств		atrocities
Pyrstf/	госуда́рств		government;
R/ystf/	убийств		murders
	издательств		publishing houses
(Though c	f. also moncrp	R/monstr/	monster.)

Place names with the suffix -ck furnish one of the most common sources of final three-member clusters.

R/psk/ Витебск
R/msk/ Томск
R/msk/ Минск
R/fsk/ Свердловск
R/rsk/ Курск
R/ysk/ Новороссийск
R/jsk/ Архангельск

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Assorted other three-consonant final clusters do occur, although none of them are very common, e.g.:

R/ndr/	Алекса́ндр	
R/ngr/	венгр	Hungarian (man)
/Ktr/	спектр	spectrum
R/ntr/	центр	center
R'str/	Днестр	Dinester (river)
A/rst/	верст	gen. pl. of Bepcta, 'verst' (1.065 km.)
K/rst/	горсть	hollow of the hand
R/1xf/	волхв	magus, wizard
K/tx1/	затхл	musty (short form masc.).

The maximum length of initial clusters i Russian is apparently four consonants. Such clusters result from the prefix spelled B3- or BC-:

R	/vzbr/	взбры́згивать	to sprinkle
R	/vzg1/	взгляд	gaze
	/vzdv/	вздваивать	to form fours
R	/fsp1/	всплеск	splash
R	/fstr/	встреча	meeting
R	/fsx1/	всхлипывать	to sob

Limitations respecting voicing apply to all Russian clusters, initial, medial, or final. For this purpose, Russian consonants are to be



divided into sets:

"Voiceless"; ppttkkffssxšš,cč

"Voiced" : b b d d g z z ž ž,

"Indifferent": mmnn11rry

Omitting a few special complications, it may be said that within any cluster: if the last consonant is "Voiceless" it is not preceded by "Voiced"; if the last is "Voiced" it is not preceded by a "Voiceless"

The phonemes K/v/ and K/v/ are "Indifferent" as far as what may precede them, but they do not precede "Voiceless." The last consonant of any final cluster must be "Voiceless" or "Indifferent".

In English there is a strong tendency for consonants that cluster together to be the same as to voicing, but for many speakers there is no such absolute limitation as in Russian:

E/ds/ Hudson E/dst/ midst E/dk/vodka
E/bs/ Absalom E/de/ width E/tb/Whitby

In Russian clusters there are limitations as to where plain consonants may occur in combination with palatalized consonants, and as to where palatalized consonants may occur in relation both to plain and to other palatalized consonants. In general, the only consonants before which either member of a related pair of plain and palatalized consonants can be found are.

To this V1/ and V1/ present an exception in that either one can be found in many other

R /lt/ болт bolt R /lt/ вольт volt

R /ln/ полна full (short R /ln/ больна sick (short form fem.)

R/16/ молча remaining R/16/ мальчик boy silent

bmfvkg/.

surroundings.

ERIC Full Text Provided by ERIC

The full details of restrictions respecting pulatalization are complicated and in some instances show variations among different speakers.

Long consendents, interpreted as electors

clusters), are found in Russian. In most varieties of English's repetition of the same consonant is possible only after an intervening division point

оттуда /attuda/ from there	at two /it tuw/	нет ту́рка /net túrka) there isn't a Turk
беззубый /bizzubay/ or-biy/ toothless	is Zuni /±z zún±y/	через зубья /ceriz zúbya/ through the teeth
бесси́лие /bissilya/ weakness	mis∵sent /mis sént/	близ силоса /blis silasa/ near the silo

Compare also:

bb	ασσάτ	abbot	
dd) nn	поддо́нник	saucer to put under a flower pot	
nn	Анна	·	
នន	рассо́л	brine to Sýmbte be	ļ
žž	изжо́га	heartburn dd пятьдесят 50	
žč aa	ни́зший	inferior	

(In many cases, however, spellings in Russian which might indicate double consonants are in fact pronounced as single consonants).

Certain consonants in Russian may even be seemente at the beginning of a word:

vv	ввоз	importation	۷۷	ввек	never at all
	сэади	from behind	zz	с зерном	with a grain
88	ссылка	exile	88))	ссек	hind shank
žž	сжёг	burned down (past masc. transitive)	šš	сшил	sewed together (past masc.)
_88 _\	к горе́	to the mountain	kk	к кому	to whom?
1	Geminate cl	usters do not as a rule	occu	r finally in R	ussian.

Vowel Combinations

In English, vowels do not frequently occur one after the other without being separated by \$\mathbb{E}_{\sumsymbol{\subsymbol{\symbol{\subsymbol{\subsymbol{\symbol{\subsymbol{\subsymbol{\subsymbol{\s

In most combinations spelled with a sequence of two vowel letters, the first nucleus is, in the speech of most Americans, a diphthong containing \(\frac{\text{9}}{y} \) or \(\frac{\text{9}}{y} \), e.g. Leah \(\frac{\text{P}}{1iyi} \), chartic \(\frac{\text{P}}{keyátik} \), Ohio \(\frac{\text{P}}{0} \) owháyow/, create \(\frac{\text{P}}{kriyéyt} \), poet \(\frac{\text{P}}{p} \) ówit/, duo \(\frac{\text{P}}{2} \) dúwow/, Louise \(\frac{\text{P}}{1iwiyz} \).

Some Russians say R/ZZ/ in place of R/Z,/; for them NCRCT'burns' and comer 'burned down' both begin the same way, with R/ZZ/, making occurrences of this combination considerably more fraguent.



In Russian a wide variety of vowel combinations can be found, although some of the possible ones are not very common. Some examples are:

руйна выигрыш /viigris/ /ruina/ gambling winnings ruins поэ́т неоткуда /neatkuda/ /poet/ there is no place from which to poet XáOC оазис /xáos/ /oazis/ or /aazis/ primordial chaos oasis биограф сто́ик /stoik/ /biograf/ stoic biographer паук /pauk/ spider вакуум наобум /vakuum/ /naabum/ at random vacuum

(It is to be noted that after vowels, R/yi/ and R/i/ are in contrast for some speakers but not for others. In any case they are spelled the same (ν) as for example in

сто́ит сто́ик /stóik/ is worth stoic

по́ить по́истине /payit/ give to drink in truth ;

In both English and Russian there are many cases where different words having the same basic stem (or the same affix) are found to show differences in the form of that stem (or affix). Some of the more important and more regular of these will be mentioned here.



In both languages there are changes of vowels when the stress is at a different place in a word. In English these involve mostly the substitutions of one of the obscure-vowel nuclei for a full-vowel nucleus.

d <u>e</u> fine	/d±yfayn/	def <u>i</u> nite	/définit/
patri <u>o</u> t	/péytriyit/	patriotic	/peytriyátik/
aroma	/irowmi/	ar <u>o</u> matic	/erimætik/
brigade @bolish record (verb)	/brigéyd/ /ibális/ /riykórd/	brig <u>a</u> dier abdiction record (noun)	/brigidîr/ /æhilístn/ /rékird/
attribute (verb)	/itrîbyiwt/	attr <u>i</u> bute (noun)	/ étribyuwt/
<u>arithme</u> tic (noun)	/iri0mitik/	ar <u>i</u> thmetic (adj.)	/eri0métik/

(Full vowels occur in stressed syllables, and elsewhere most frequently in the second syllable preceding the stress, but many other patterns also occur.)

In Russian a more systematic pattern prevails: by and large after plain consonants, R'a/ and R'o/ are both replaced by unstressed R'a/; after palatal consonants stressed R'a/ R'o/ R'e/ R'i/ are all replaced by unstressed R'i/; after N'z/ R's/ R'c/ in most cases R'o/ R'e/ R'i/ are replaced by R'i/, though for some speakers R'a/ is also.) (See also pp. 59-62 of this MS.)



<u>токо́в</u> (gen. pl.) /tak&f/ TOK /t6k/ threshing flour /ták/ / таков /tak6f/ Tak 80 мясо мясной /mása/ /misnoy/ of meat (adj.) meat дерновый /dirn6vay/ (or - iy/) дёрн /dorn/ of turf (adj.) turf белый бело́к /belay/ /bil6k/ white of an egg white (or -iy2) листовка /listofke/ лист /list/ leaf, sheet leaflet жёван жевать /živát/ /žovan/ to chew chewed (short form masc. past participle) пестой /šistóy/ /sest/ шесть xi a живо́й /živóy/ жив /2if/ alive (short living (adj.) form masc.) BGBK /žará/ or жар /zar/ heat high temperature

Russian stems - and most affixes - have the same spelling, as a rule, whether the vowels in them are stressed or unstressed.)

The consonants in Russian which belong to rairs—one voiceless and
the other voiced (cf. (pp. 51-52 of typescript) and (pp. 101-5 of typed)—
will be found replacing each other, in accordance to the sequences in which only one sor
Can appear.
Only the voiced ones can occur before Nb/ Nb/ Nd/ Nd/ Ng/ R/z/

R/z/Nz/Nz,/, whether or not separated by R/ / - as between adjacent words (this does not apply, when the are in separate phrases.) Only voiceless occur before another voiceless consonant or at the end of a phrase or before R/. / except when R/ / is followed by one of the voiced consonants listed above.



Illustrative examples:

Unvoicing:

/b/	арабы	Arabs	/р/ арабка	Arab woman
/v/	голова	head	/€/ голо́вка	(diminutive)
/d/	шводы	Swedes	/t/ шве́дка	Swedish woman
/d/	дя́дя	uncle	/ţ/ дя́дька	(diminutive)
	слеза	tear	/s/ слёзка	(diminutive)
/ž/	норвеже Л	Norwegian man	/š/ норве́жка	Norwegian woman

Voicing:

/p/	кре́пла	grew stronger (past fem.)	/b/	креп бы	would grow stronger (masc.)
/s/	росла	grew up (past fem.)	/z/	рос бы	would grow up (masc.)
/k/	пекла	baked (past fem.)	/g/	пёк бы	would bake (masc.)
/x/	сохла	dried up (past. fem.)	171	сох бы	would dry up (masc.)
/š/	лишь	as soon as	/ž/	лишь бы	if only

The spelling is not usually changed in such cases except for 3 and coin prefixes: безгрешный sinless бескровный bloodless.

A regular alternation in English comparable to this is the difference in certain affixes depending on whether the sound which precedes is voiced or voiceless.

cub <u>s</u>	/knbz/	cup <u>s</u>	/knps/
ribbed	/ribd/	ripped	/ript/



Plain and palatalized consonants also are found substituting for one another.

```
жена
                                    жене́
                                    /žīné/
: /žīná/
                                     (dative)
  wife
 несу́
/nIsú/
I'carry
                                    несёт
                                    /nTsot/
                                    carries
                                    (3rd. sing.)
 кровь
                                    кровный
                                    /krovnay/
 /króf/
  blood
                                    of blood (adj.)
 крови
 /krovi/
  (geh.)
 дверь
 /dyer/
door
                                    /dvérca/
                                   (diminutive) -
```

This is not directly comparable to anything in English. There E/C/E/Cy/ are sporadic alternations of with , but these depend largely on position of stress:

circuit /sʌrkit/ circuitous /sirkyúwitis/
solution /silúwsin/ soluble /sályibil/
penurious /pinúriyis/ penury /pényiriy/
(Many pronounce/ny/also in penurious.)



In certain forms in Russian another type of alternation is found:

k	č	пла́кать	to cry	плацу	I am crying
g	ž	слуга	servant	служу	I serve
×	š	пахать	to plough	пашу	I am ploughing
t(t)	č	плати́ть	to pay	пла <u>ч</u> у́	I am paying
d(d)	ž	ходи́ть	to walk	хо <u>ж</u> у́	I walk
z(z)	ž	ре́ <u>з</u> ать	to cut	ре́жу	I am cutting
s(s)	š	плясать	to dance	плящу́	I am dancing
st,sk	š,	пусти́ть	to allow	пу <u>ш</u> у́	I shall allow
		искать	to seek	ищу	I am seeking
, ; c	č	коне́ц	end	ко́нчу	I am finishing

In similar circumstances after labial sounds R_1 is inserted:

p(p)	трепать	to worry	треп <u>л</u> ю́	I am worrying
b(b)	люби́ть	to love	люб <u>л</u> ю́	I love
m(nı)	дремать	to doze	дрем <u>л</u> ю́	I am dozing
f(f)	графить	to graph	графлю́	I am graphing
v(v)	ловить	to catch	лов <u>л</u> ю́	I am catching

In English there is a somewhat similar type of alternation before certain suffixes:

·t	(š) <u>U</u>	legislate	legislature	(legisla	tion)
ď	j(ž)	procede	procedure	(invade	invasion)
s	Š	press	pressure		impression
z	ž	seize	seizure	revise	revision



The principal cases in which the placement of stress in words causes interference between the two languages are in words which have been borrowed into each language, but with the stress on different syllables.

Russian often differs from English by having final stress or in feminine nouns ending in $|\nabla a|$ (a or π) stress on the syllable before the last.

студе́нт	student	автомобиль	automobile
магни́т	magnet	диагона́ль	diagonal
еспири́н	aspirin	телеско́п	telescope
нейтро́н	neutron	метео́р	meteor
атмосфе́ра	atmosphere	телеграмма	telegram
систе́ма	system	температу́ра	temperature
батере́я	battery	целлюло́за	cellulose

(French, with automatic final stress, has exerted an influence on the stress of many learned borrowings. The feminine nouns often correspond to words which have a final "mute e" in French.)

The suffixes - MCT and -M3M are inherently stressed in Russian:

лингвист linguist атавизм atavism специалист specialist каннибализм cannibalism

In Russian the stress is often on the middle syllable in a three syllable word where the corresponding word in English has initial stress.

пара́граф paragraph хара́ктер character парла́мент parliament авто́бус autobus сино́ним synonym

The stress in Russian is on Ra/ in words ending in -arop.

оратор orator авиатор aviator конспиратор conspirator индикатор indicator



Pairs of words in which the Russian suffix -MM corresponds to the English suffix -y also suffer a stress dislocation:

история history энергия energy демократия democracy биология biology

The learned borrowings common to the two languages of course involve many other lacks of parallelism beside differences in the location of stress. Often Russian spelling is much more reminiscent of an English word than is the pronunciation. Such partially similar words lend themselves easily to being pronounced by the English learner of Russian in a partly English manner, particularly as to the vowel sounds.

(There are also frequent correspondences in the forms of related words which somewhat hinder recognition of the common origin.

госпиталь	<u>h</u> ospital	<u>х</u> ара́ктер	<u>ch</u> aracter
э <u>кв</u> а́тор	equator	автонат	automat
Европа	<u>Eu</u> rope	н <u>ей</u> тро́н	neutron
ми <u>ф</u> оло́гия	my <u>th</u> ology	метан	me <u>th</u> ane
цилиндр	cylinder	but свитиметр	<u>c</u> entimeter)

Russian and English habits differ in regard to the usual pattern of stress for reading abbreviations.

CCCP R'es ès ès cer/ U.S.S.R. P'yuw es es car/

In English, the name of the first letter of an abbreviation is pronounced with greater prominence than the middle letters, which is not the case in Russian.

As was pointed out in previous chapters, Russian has a phoneme of phrase emphasis R/P/, comparable to English E/P/.



In Russian the occurrence of R/e with some word before the last one in a phrase is one way of providing emphasis. The order of words is much freer in Russian than in English, and another way of providing emphasis is to put words in a less usual order. Different word order makes in many cases a less violent change in a sentence than does a shift in the position of the phrase emphasis.

In accordance with this, there is a difference in the patterns of occurrence of Russian R/9/ and English E/9/. In circumstances where word order is not fixed in Russian it is different word order which by and large

corresponds most closely in meaning to the shift of E/O in English, while a different position of R/O in Russian is more nearly equivalent to a recasting of the phrase in English.

Thus:

Студент отвеочал.

Отвеча́л сту^Оде́нт.

Сту^Одент отвечал.

Отвеочал студент

The student was canswering.

The Ostudent was answering.

It was the Ostudent

(who was oanswering.

Shift in the position of the phrase emphasis is not so common in Russian as in English, where it may take place for no stronger reason than that the final element in a phrase is something rather to be expected, as in

The Otelephone rang.

